SUBJECT INDEX TO VOLUME 70, 1991

INTRODUCTION

The page number on which an article begins is listed at the end of that article's title. An article may appear under more than one heading.

Author names are listed alphabetically. Numbers listed after each name are the page numbers of the article(s) on which their name appears.

ABRASION, TOOTH (*see* Tooth Abrasion)

ABRASION RESISTANCE

Influence of carboxylic anhydrides on selected mechanical properties of heat-cured resin composites. Peutzfeldt, A. and Asmussen, E., 1537

Water and abrasive effects on three-body wear of composites. Sarrett, D.C., *et al.*, 1074

ABSTRACTS

Abstracts, IADR/AADR, 266-596

Divisional abstracts, 636-864

Guest editorial: "Trust no future, however pleasant; ...Act, act in the living present." Squier, C.A., 1019

ACETATES

Acid profile in carious dentin. Hojo, S., *et al.*, 182

ACID ETCHING, DENTAL

Adhesion to bovine dentin—surface characterization. Ruse, N.D. and Smith, D.C., 1002

ACID PHOSPHATE

Changes in acid-phosphate content in enamel mineral during porcine amelogenesis. Shimoda, S., *et al.*, 1516

ACIDS

Acid profile in carious dentin. Hojo, S., *et al.*, 182

Enhancing the virulence of *Streptococcus sobrinus* in rats. Madison, K.M., *et al.*, 38

ACTINOMYCES VISCOSUS

Association of proteases of *Porphyromonas (Bacteroides) gingivalis* with its adhesion to *Actinomyces viscosus*. Li, J., *et al.*, 82

ADENOSINE TRIPHOSPHATE

Calcium uptake in rat parotid gland secretory granules. Porter, J.E., *et al.*, 1524

ADHESIVES

Dentin-bonding molar efficiency using *N*-phenylglycine, *N*-phenyl-beta-alanine, or *N*-methyl-*N*-phenylglycine. Webb, R.E. and Johnston, A.D., 211

Destructive stresses in adhesive luting cements. Davidson, C.L., *et al.*, 880

Effect of local interfacial geometry on the measurement of the tensile bond strength to dentin, The. Van Noort, R., *et al.*, 889

Importance of polymerization initiator systems and interfacial initiation of polymerization in adhesive bonding of resin to dentin. Imai, Y., *et al.*, 1088

Tensile fatigue limits of prosthodontic adhesives. Aquilino, S.A., *et al.*, 208

Vibrational analysis by Raman spectroscopy of the interface between dental adhesive resin and dentin. Suzuki, M., *et al.*, 1092

AGE FACTORS

Age-related changes in mucins from human whole saliva. Denny, P.C., *et al.*, 1320

AGING

Age-related development of the long-junctional epithelium in the senescence-accelerated mouse. Sashima, M., *et al.*, 1462

Characteristics of masticatory mandibular movements and velocity in growing individuals and young adults. Kiliaridis, S., *et al.*, 1367

Guest editorial: longitudinal studies of aging and oral health. Garcia, R.I. and Chauncey, H.H., 865

ALKALINE PHOSPHATASE

Alkaline phosphatase induces the deposition of calcified layers in relation to dentin: an *in vitro* study to mimic the formation of afibrillar acellular cementum. Beertsen, W. and Van Den Bos, T., 176

Effects of calcium-phosphate-based materials on proliferation and alkaline phosphatase activity of newborn rat periosteal cells *in vitro*. Teti, A., *et al.*, 997

ALLOYS, DENTAL (*see* Dental Alloys)

ALUM COMPOUNDS

Evaluation of new gingival retraction agents. Bowles, W.H., *et al.*, 1447

ALVEOLAR BONE

Immunohistochemical localization of the matrix glycoproteins—tenascin and the ED-sequence-containing form of cellular fibronectin—in human permanent teeth and periodontal ligament. Lukinmaa, P.-L., *et al.*, 19

Twin study of genetic variation in proportional radiographic alveolar bone height, A. Michalowicz, B.S., *et al.*, 1431

ALVEOLAR BONE LOSS

Detection of periodontal disease activity with a scintillation camera. Reddy, M.S., *et al.*, 50

ALVEOLAR RIDGE AUGMENTATION

Effects of calcium-phosphate-based materials on proliferation and alkaline phosphatase activity of newborn rat periosteal cells *in vitro*. Teti, A., *et al.*, 997

AMELOGENESIS

Changes in acid-phosphate content in enamel mineral during porcine amelogenesis. Shimoda, S., *et al.*, 1516

Upper central incisor and canine tooth crown size in 47,XXY males. Alvesalo, L., *et al.*, 1057

AMINO ACIDS

Studies on the subcellular localization of protease and arylaminopeptidase activities in *Streptococcus sanguis* ATCC 10556. Cowman, R.A. and Baron, S.S., 1508

ANHYDRIDES

Influence of carboxylic anhydrides on selected mechanical properties of heat-cured resin composites. Peutzfeldt, A. and Asmussen, E., 1537

ANTIMICROBIALS

Clinical trial in adults of an antimicrobial varnish for reducing mutans streptococci. Sandham, H.J., 1401

ANXIETY

Correlates of dental anxiety among older adults. Locker, D. and Liddell, A.M., 198

Effect of a beta-adrenergic blocking agent on dental anxiety. Liu, H.H., *et al.*, 1306

APATITES

Effects of calcium-phosphate-based materials on proliferation and alkaline phosphatase activity of newborn rat periosteal cells *in vitro*. Teti, A., *et al.*, 997

ARYLAMINOPEPTIDASES

Studies on the subcellular localization of protease and arylaminopeptidase activities in *Streptococcus sanguis* ATCC 10556. Cowman, R.A. and Baron, S.S., 1508

ASCORBIC ACID DEFICIENCY

Effects of ascorbic acid depletion and supplementation on periodontal health and subgingival microflora in humans. Leggott, P.J., *et al.*, 1531

ASPARTATE AMINOTRANSFERASE

Association of gingival crevicular fluid aspartate aminotransferase levels with histopathology during ligature-induced periodontitis in the beagle dog. Cohen, R.L., *et al.*, 984

ATP (*see* Adenosine Triphosphate)

ATTITUDE TO HEALTH

Correlates of dental anxiety among older adults. Locker, D. and Liddell, A.M., 198

SUBJECT INDEX TO VOLUME 70, 1991

INTRODUCTION

The page number on which an article begins is listed at the end of that article's title. An article may appear under more than one heading.

Author names are listed alphabetically. Numbers listed after each name are the page numbers of the article(s) on which their name appears.

ABRASION, TOOTH (*see* Tooth Abrasion)

ABRASION RESISTANCE

Influence of carboxylic anhydrides on selected mechanical properties of heat-cured resin composites. Peutzfeldt, A. and Asmussen, E., 1537

Water and abrasive effects on three-body wear of composites. Sarrett, D.C., *et al.*, 1074

ABSTRACTS

Abstracts, IADR/AADR, 266-596

Divisional abstracts, 636-864

Guest editorial: "Trust no future, however pleasant; ...Act, act in the living present." Squier, C.A., 1019

ACETATES

Acid profile in carious dentin. Hojo, S., *et al.*, 182

ACID ETCHING, DENTAL

Adhesion to bovine dentin—surface characterization. Ruse, N.D. and Smith, D.C., 1002

ACID PHOSPHATE

Changes in acid-phosphate content in enamel mineral during porcine amelogenesis. Shimoda, S., *et al.*, 1516

ACIDS

Acid profile in carious dentin. Hojo, S., *et al.*, 182

Enhancing the virulence of *Streptococcus sobrinus* in rats. Madison, K.M., *et al.*, 38

ACTINOMYCES VISCOSUS

Association of proteases of *Porphyromonas (Bacteroides) gingivalis* with its adhesion to *Actinomyces viscosus*. Li, J., *et al.*, 82

ADENOSINE TRIPHOSPHATE

Calcium uptake in rat parotid gland secretory granules. Porter, J.E., *et al.*, 1524

ADHESIVES

Dentin-bonding molar efficiency using *N*-phenylglycine, *N*-phenyl-beta-alanine, or *N*-methyl-*N*-phenylglycine. Webb, R.E. and Johnston, A.D., 211

Destructive stresses in adhesive luting cements. Davidson, C.L., *et al.*, 880

Effect of local interfacial geometry on the measurement of the tensile bond strength to dentin, The. Van Noort, R., *et al.*, 889

Importance of polymerization initiator systems and interfacial initiation of polymerization in adhesive bonding of resin to dentin. Imai, Y., *et al.*, 1088

Tensile fatigue limits of prosthodontic adhesives. Aquilino, S.A., *et al.*, 208

Vibrational analysis by Raman spectroscopy of the interface between dental adhesive resin and dentin. Suzuki, M., *et al.*, 1092

AGE FACTORS

Age-related changes in mucins from human whole saliva. Denny, P.C., *et al.*, 1320

AGING

Age-related development of the long-junctional epithelium in the senescence-accelerated mouse. Sashima, M., *et al.*, 1462

Characteristics of masticatory mandibular movements and velocity in growing individuals and young adults. Kiliaridis, S., *et al.*, 1367

Guest editorial: longitudinal studies of aging and oral health. Garcia, R.I. and Chauncey, H.H., 865

ALKALINE PHOSPHATASE

Alkaline phosphatase induces the deposition of calcified layers in relation to dentin: an *in vitro* study to mimic the formation of afibrillar acellular cementum. Beertsen, W. and Van Den Bos, T., 176

Effects of calcium-phosphate-based materials on proliferation and alkaline phosphatase activity of newborn rat periosteal cells *in vitro*. Teti, A., *et al.*, 997

ALLOYS, DENTAL (*see* Dental Alloys)

ALUM COMPOUNDS

Evaluation of new gingival retraction agents. Bowles, W.H., *et al.*, 1447

ALVEOLAR BONE

Immunohistochemical localization of the matrix glycoproteins—tenascin and the ED-sequence-containing form of cellular fibronectin—in human permanent teeth and periodontal ligament. Lukinmaa, P.-L., *et al.*, 19

Twin study of genetic variation in proportional radiographic alveolar bone height, A. Michalowicz, B.S., *et al.*, 1431

ALVEOLAR BONE LOSS

Detection of periodontal disease activity with a scintillation camera. Reddy, M.S., *et al.*, 50

ALVEOLAR RIDGE AUGMENTATION

Effects of calcium-phosphate-based materials on proliferation and alkaline phosphatase activity of newborn rat periosteal cells *in vitro*. Teti, A., *et al.*, 997

AMELOGENESIS

Changes in acid-phosphate content in enamel mineral during porcine amelogenesis. Shimoda, S., *et al.*, 1516

Upper central incisor and canine tooth crown size in 47,XXY males. Alvesalo, L., *et al.*, 1057

AMINO ACIDS

Studies on the subcellular localization of protease and arylaminopeptidase activities in *Streptococcus sanguis* ATCC 10556. Cowman, R.A. and Baron, S.S., 1508

ANHYDRIDES

Influence of carboxylic anhydrides on selected mechanical properties of heat-cured resin composites. Peutzfeldt, A. and Asmussen, E., 1537

ANTIMICROBIALS

Clinical trial in adults of an antimicrobial varnish for reducing mutans streptococci. Sandham, H.J., 1401

ANXIETY

Correlates of dental anxiety among older adults. Locker, D. and Liddell, A.M., 198

Effect of a beta-adrenergic blocking agent on dental anxiety. Liu, H.H., *et al.*, 1306

APATITES

Effects of calcium-phosphate-based materials on proliferation and alkaline phosphatase activity of newborn rat periosteal cells *in vitro*. Teti, A., *et al.*, 997

ARYLAMINOPEPTIDASES

Studies on the subcellular localization of protease and arylaminopeptidase activities in *Streptococcus sanguis* ATCC 10556. Cowman, R.A. and Baron, S.S., 1508

ASCORBIC ACID DEFICIENCY

Effects of ascorbic acid depletion and supplementation on periodontal health and subgingival microflora in humans. Leggott, P.J., *et al.*, 1531

ASPARTATE AMINOTRANSFERASE

Association of gingival crevicular fluid aspartate aminotransferase levels with histopathology during ligature-induced periodontitis in the beagle dog. Cohen, R.L., *et al.*, 984

ATP (*see* Adenosine Triphosphate)

ATTITUDE TO HEALTH

Correlates of dental anxiety among older adults. Locker, D. and Liddell, A.M., 198

AUSTRALIA

Dental caries and fluoride exposure in Western Australia. Riordan, P.J., 1029

Dental fluorosis and fluoride exposure in Western Australia. Riordan, P.J. and Banks, J.A., 1022

AUTONOMIC AGENTS

Effects of autonomic drugs on the concentration of kallikrein-like proteases and cysteine-proteinase inhibitor (cystatin) in rat whole saliva, The. Bedi, G.S., 924

BACTERIA

Atypical structure of the 23S ribosomal RNA molecule in certain oral bacteria. Sunday, G.J., *et al.*, 961

Draft results of a workshop to develop guidelines for studies involving microbial incidence or populations in the oral cavity. Krichevsky, M.I., *et al.*, 226

Effects of ascorbic acid depletion and supplementation on periodontal health and subgingival microflora in humans. Leggott, P.J., *et al.*, 1531

Effects of fluoride and chlorhexidine on the microflora of dental root surfaces and progression of root-surface caries. Schaeken, M.J.M., *et al.*, 150

Multi-station dental plaque microcosm (artificial mouth) for the study of plaque growth, metabolism, pH, and mineralization. Sissons, C.H., *et al.*, 1409

BACTERIAL ADHESION

Association of proteases of *Porphyromonas (Bacteroides) gingivalis* with its adhesion to *Actinomyces viscosus*. Li, J., *et al.*, 82

BACTEROIDES

Association of proteases of *Porphyromonas (bacteroides) gingivalis* with its adhesion to *Actinomyces viscosus*. Li, J., *et al.*, 82

Atypical structure of the 23S ribosomal RNA molecule in certain oral bacteria. Sunday, G.J., *et al.*, 961

BANA (*See* Benzoylarginine-2-naphthylamide)

BEHAVIORAL SCIENCES

Guest editorial: multi-disciplinary activities: the key to survival of dental education?—dental behavioral science's role. Smith, T.A., 938

BENZOYLARGININE-2-NAPHTHYLAMIDE

Detection of two anaerobic periodontopathogens in children by means of the BANA and ELISA assays. Watson, M.-R., *et al.*, 1052

BETA-ADRENERGIC RECEPTOR BLOCKADERS

Effect of a beta-adrenergic blocking agent on dental anxiety. Liu, H.H., *et al.*, 1306

BICARBONATES

Effects of salivary bicarbonate content and film velocity on pH changes in an artificial plaque containing *Streptococcus oralis*, after exposure to sucrose. MacPherson, L.M.D., *et al.*, 1235

BIOCOMPATIBLE MATERIALS

Effects of calcium-phosphate-based materials on proliferation and alkaline phosphatase activity of newborn rat periosteal cells *in vitro*. Teti, A., *et al.*, 997

Hamster cheek-pouch testing of dental soft polymers. Harsanyi, B.B., *et al.*, 991

BITE FORCE

Electromyographic-force characteristics in the assessment of oral function. Lindauer, S.J., *et al.*, 1417

BLOOD CIRCULATION

Effects of topical and systemic nicotine on gingival blood flow in dogs. Johnson, G.K., *et al.*, 906

BLOOD FLOW VELOCITY

Reliability of pulpal blood-flow measurements utilizing laser doppler flowmetry. Ramsay, D.S., *et al.*, 1427

BLOOD VESSELS

Scanning electron microscopic study of the contraction of vascular wall cells in dog dental pulp, A. Iijima, T., *et al.*, 1456

BONDING, DENTAL

Adhesion to bovine dentin—surface characterization. Ruse, N.D. and Smith, D.C., 1002

Bonding efficacy of erythritol methacrylate solutions as dentin primers. Manabe, A., *et al.*, 1294

Dentin bond strength of light-cured glass-ionomer cements. Hinoura, K., *et al.*, 1542

Dentin-bonding molar efficiency using *N*-phenylglycine, *N*-phenyl-beta-alanine, or *N*-methyl-*N*-phenylglycine. Webb, R.E. and Johnston, A.D., 211

Effect of 2-(methacryloxy)ethyl phenyl hydrogen phosphate on adhesion to dentin. Wang, T. and Nakabayashi, N., 59

Effect of catalyst structure on the synthesis of a dental restorative monomer. Farahani, M., *et al.*, 67

Effect of local interfacial geometry on the measurement of the tensile bond strength to dentin, The. Van Noort, R., *et al.*, 889

Importance of polymerization initiator systems and interfacial initiation of polymerization in adhesive bonding of resin to dentin. Imai, Y., *et al.*, 1088

Influence of the solubility parameter of intermediary resin on the effectiveness of the Gluma bonding system. Asmussen, E., *et al.*, 1290

Tensile fatigue limits of prosthodontic adhesives. Aquilino, S.A., *et al.*, 208

Vibrational analysis by Raman spectroscopy of the interface between dental adhesive resin and dentin. Suzuki, M., *et al.*, 1092

BONE AND BONES

Effects of calcium-phosphate-based materials on proliferation and alkaline phosphatase activity of newborn rat periosteal cells *in vitro*. Teti, A., *et al.*, 997

Histomorphometric analysis of the effects of fluoride on experimental ectopic bone formation in the rat, A. Mohr, H. and Kragstrup, J., 957

BONE MATRIX

Human dentin-matrix-derived bone morphogenetic protein. Bessho, K., *et al.*, 171

BONE RESORPTION

Effect of partial coating with hydroxyapatite on bone remodeling in relation to porous-coated titanium-alloy dental implants in the dog, The. Pilliar, R.M., *et al.*, 1338

Human periodontal ligament fibroblast clone releases a bone resorption inhibition factor *in vitro*, A. Giniger, M.S., *et al.*, 99

Involvement of PGE synthesis in the effect of intermittent pressure and interleukin-1ß on bone resorption. Saito, S., *et al.*, 27

Kinetics of bone-resorbing activity in developing periapical lesions. Wang, C.-Y. and Stashenko, P., 1362

BRIDGEWORK, DENTAL (*see* Denture, Partial)

CADMIUM

Release of elements of dental casting alloys into cell-culture medium, The. Wataha, J.C., *et al.*, 1014

CALCITONIN

Human periodontal ligament fibroblast clone releases a bone resorption inhibition factor *in vitro*, A. Giniger, M.S., *et al.*, 99

CALCIUM

Calcium uptake in rat parotid gland secretory granules. Porter, J.E., *et al.*, 1524

Carbonate content in developing human and bovine enamel. Sydney-Zax, M., *et al.*, 913

Effect of thromboxane on contraction of canine mesenteric and lingual arteries, The. Greenberg, S.S., *et al.*, 1278

Therapeutic mineral enrichment of dental plaque visualized by transmission electron microscopy. Pearce, E.I.F., *et al.*, 90

CALCIUM PHOSPHATES

Effects of calcium-phosphate-based materials on proliferation and alkaline phosphatase activity of newborn rat periosteal cells *in vitro*. Teti, A., *et al.*, 997

Induction of calcium phosphate precipitation by titanium dioxide. Damen, J.J.M., *et al.*, 1346

CAMPYLOBACTER

Atypical structure of the 23S ribosomal RNA molecule in certain oral bacteria. Sunday, G.J., *et al.*, 961

CANINE TOOTH

Upper central incisor and canine tooth crown size in 47,XXY males. Alvesalo, L., *et al.*, 1057

CANINES (*see* Dogs)

CAPNOCYTOPHAGA

Identification by biotinylated DNA probes of *Capnocytophaga* species isolated from supragingival calculus. Morita, M., *et al.*, 1048

CARBOHYDRATES

Chromosomal deletions in melibiose-negative isolates of *Streptococcus mutans*. Ushiro, I., *et al.*, 1422

Lack of correlation between food retention on the human dentition and consumer perception of food stickiness. Kashket, S., *et al.*, 1314

Prevalence of root caries in a diabetic population, The. Tavares, M., *et al.*, 979

Synergistic degradation of mucin by *Streptococcus oralis* and *Streptococcus sanguis* in mixed chemostat cultures. Van der Hoeven, J.S. and Camp, P.J.M., 1041

CARBONATES

Carbonate content in developing human and bovine enamel. Sydney-Zax, M., *et al.*, 913

Influence of fluoride and carbonate on *in vitro* remineralization of bovine enamel. Lammers, P.C., 970

CARBOXYLIC ACIDS

Influence of carboxylic anhydrides on selected mechanical properties of heat-cured resin composites. Peutzfeldt, A. and Asmussen, E., 1537

CARCINOGENS

Alteration in glutathione level during carcinogenesis of hamster buccal pouch mucosa. Zhang, L. and Mock. D., 1061

CATECHOL METHYLTRANSFERASE

Immunocytochemical evidence for the site of O-methylation in rat dental pulp. Inoue, K., *et al.*, 966

CATS

Comparative study of fluoride pharmacokinetics in five species, A. Whitford, G.M., *et al.*, 948

CD11B ADHESION MOLECULE

Analysis of neutrophil chemotaxis and CD11b expression in pre-pubertal periodontitis. Watanabe, K., *et al.*, 102

CELL ADHESION

Cell attachment activity of cementum proteins and mechanism of endotoxin inhibition. Olson, S., *et al.*, 1272

CEMENTS (*see* Dental Cements)

CERAMICS

Abrasion of human enamel by different dental ceramics *in vitro*. Seghi, R.R., *et al.*, 221

CHEMOTAXIS

Analysis of neutrophil chemotaxis and CD11b expression in pre-pubertal periodontitis. Watanabe, K., *et al.*, 102

CHEWING GUM

Effect of increased mastication by daily gum-chewing on salivary gland output and dental plaque acidogenicity, The. Dodds, M.W.J., *et al.*, 1474

Effect of particle size reduction on the jaw gape in human mastication, The. Van Der Bilt, A., *et al.*, 931

Effects of salivary bicarbonate content and film velocity on pH changes in an artificial plaque containing *Streptococcus oralis*, after exposure to sucrose. MacPherson, L.M.D., *et al.*, 1235

CHEWING (*see* Mastication)

CHILD DEVELOPMENT

Conference report: feeding and dentofacial development. Nowak, A.J., 159

CHILDREN

Detection of two anaerobic periodontopathogens in children by means of the BANA and ELISA assays. Watson, M.-R., *et al.*, 1052

Incidence and characterization of *Staphylococcus aureus* from the tongues of children. Miyake, Y., *et al.*, 1045

CHLORHEXIDINE

Changes in strains of mutans streptococci induced by treatment with chlorhexidine varnish. Kozai, K., *et al.*, 1252

Clinical trial in adults of an antimicrobial varnish for reducing mutans streptococci. Sandham, H.J., 1401

Effects of fluoride and chlorhexidine on the microflora of dental root surfaces and progression of root-surface caries. Schaeken, M.J.M., *et al.*, 150

CHLORIDES

Crevice corrosion products of dental amalgam. Sutow, E.J., *et al.*, 1082

CHOLINESTERASES

Effect of periodontal therapy on salivary pseudocholinesterase activity, The. Yamalik, N., *et al.*, 988

CHROMOSOME DELETION

Chromosomal deletions in melibiose-negative isolates of *Streptococcus mutans*. Ushiro, I., *et al.*, 1422

CIRCULATION (*see* Blood Circulation)

CLEFT PALATE

Effect of low-level laser treatment on maxillary arch dimensions after palatal surgery on beagle dogs, The. In De Braekt, M.M.H., *et al.*, 1467

CLINICAL TRIALS

Power and sample size calculations for clinical trials of myofascial pain of jaw muscles. Dao, T.T.T., *et al.*, 118

COMPLEMENT ACTIVATION

Activation of complement by *Treponema denticola*. Schenkein, H.A. and Berry, C.R., 107

COMPOSITES

Dentinal fluid movement associated with loading of restorations. Hirata, K., *et al.*, 975

Destructive stresses in adhesive luting cements. Davidson, C.L., *et al.*, 880

Influence of carboxylic anhydrides on selected mechanical properties of heat-cured resin composites. Peutzfeldt, A. and Asmussen, E., 1537

Microleakage of three cement bases. Heys, R.J. and Fitzgerald, M., 55

Photo-activation of resin cements through porcelain veneers. Linden, J.J., *et al.*, 154

Refractive-index-adjustable fillers for visible-light-cured dental resin composites: preparation of TiO_2-SiO_2 glass powder by the sol-gel process. Suzuki, H., *et al.*, 883

Staining of *in vivo* subsurface degradation in dental composites with silver nitrate. Mair, L.H., 215

Surface roughness of enamel-to-enamel contact areas compared with the intrinsic roughness of dental resin composites, The. Willems, G., *et al.*, 1299

Water and abrasive effects on three-body wear of composites. Sarrett, D.C., *et al.*, 1074

COMPUTER SIMULATION

Effects of salivary film velocity on pH changes in an artificial plaque containing *Streptococcus oralis*, after exposure to sucrose. MacPherson, L.M.D. and Dawes, C., 1230

CONTRACTION

Destructive stresses in adhesive luting cements. Davidson, C.L., *et al.*, 880

Effect of thermal tempering on strength and crack propagation behavior of feldspathic porcelains. Anusavice, K.J. and Hojjatie, B., 1009

Microleakage of three cement bases. Heys, R.J. and Fitzgerald, M., 55

COOLING

Effect of cooling rate on leucite volume fraction in dental porcelains. Mackert, J.R., Jr. and Evans, A.L., 137

Effect of thermal tempering on strength and crack propagation behavior of feldspathic porcelains. Anusavice, K.J. and Hojjatie, B., 1009

Influence of initial flaw size on crack growth in air-tempered porcelain. Anusavice, K.J., *et al.*, 131

COPPER

Crevice corrosion products of dental amalgam. Sutow, E.J., *et al.*, 1082

CORROSION

Crevice corrosion products of dental amalgam. Sutow, E.J., *et al.*, 1082

CRACKS (*see* Fractures)

CREEP

Factors influencing the creep of dental amalgam. Mahler, D.B. and Adey, J.D., 1394

CROWNS

Effect of crown receipt on measures of gingival status, The. Bader, J., *et al.*, 1386

CULTURE MEDIA

Development of low- and high-serum culture conditions for use of human oral fibroblasts in toxicity testing of dental materials. Liu, Y., *et al.*, 1068

Enumeration of oral streptococci on media containing different concentrations of sodium and potassium ions. Willcox, M.D.P., *et al.*, 1375

Synergistic degradation of mucin by *Streptococcus oralis* and *Streptococcus sanguis* in mixed chemostat cultures. Van der Hoeven, J.S. and Camp, P.J.M., 1041

CURING

Adhesion to dentin and physical properties of a light-cured glass-ionomer liner/base. Mitra, S.B., 72

Dentin bond strength of light-cured glass-ionomer cements. Hinoura, K., *et al.*, 1542

Destructive stresses in adhesive luting cements. Davidson, C.L., *et al.*, 880

Importance of polymerization initiator systems and interfacial initiation of polymerization in adhesive bonding of resin to dentin. Imai, Y., *et al.*, 1088

Influence of carboxylic anhydrides on selected mechanical properties of heat-cured resin composites. Peutzfeldt, A. and Asmussen, E., 1537

In vitro fluoride release from a light-cured glass-ionomer liner/base. Mitra, S.B., 75

Photo-activation of resin cements through porcelain veneers. Linden, J.J., *et al.*, 154

Refractive-index-adjustable fillers for visible-light-cured dental resin composites: preparation of TiO_2-SiO_2 glass powder by the sol-gel process. Suzuki, H., *et al.*, 883

CYSTATINS

Effects of autonomic drugs on the concentration of kallikrein-like proteases and cysteine-proteinase inhibitor (cystatin) in rat whole saliva, The. Bedi, G.S., 924

CYTOTOXICITY

Application of the MTT colorimetric assay to measure cytotoxic effects of phenolic compounds on established rat dental pulp cells. Kasugai, S., *et al.*, 127

Cytotoxic effects of resin components on cultured mammalian fibroblasts. Hanks, C.T., 1450

Release of elements of dental casting alloys into cell-culture medium, The. Wataha, J.C., *et al.*, 1014

DEMINERALIZATION (*see* Tooth Demineralization)

DENTAL ALLOYS

Age-hardening mechanisms in a commercial dental gold alloy containing platinum and palladium. Tani, T., *et al.*, 1350

Factors influencing the creep of dental amalgam. Mahler, D.B. and Adey, J.D., 1394

Release of elements of dental casting alloys into cell-culture medium, The. Wataha, J.C., *et al.*, 1014

DENTAL AMALGAM

Crevice corrosion products of dental amalgam. Sutow, E.J., *et al.*, 1082

Factors influencing the creep of dental amalgam. Mahler, D.B. and Adey, J.D., 1394

DENTAL CALCULUS

Effect of crown receipt on measures of gingival status, The. Bader, J., *et al.*, 1386

Identification by biotinylated DNA probes of *Capnocytophaga* species isolated from supragingival calculus. Morita, M., *et al.*, 1048

Therapeutic mineral enrichment of dental plaque visualized by transmission electron microscopy. Pearce, E.I.F., *et al.*, 90

DENTAL CARIES

Acid profile in carious dentin. Hojo, S., *et al.*, 182

Acid-susceptibility of lesions in bovine enamel after remineralization at different pH values and in the presence of different fluoride concentrations. Lammers, P.D., *et al.*, 1486

Classification tree prediction models for dental caries from clinical, microbiological, and interview data. Stewart, P.W. and Stamm, J.W., 1239

Dental caries and fluoride exposure in Western Australia. Riordan, P.J., 1029

Effect of EHDP concentration on enamel demineralization *in vitro*. Christofferson, J., *et al.*, 123

Effects of fluoride and chlorhexidine on the microflora of dental root surfaces and progression of root-surface caries. Schaeken, M.J.M., *et al.*, 150

Eight-year follow-up of the occlusal surfaces of first permanent molars, An. Vehkalahti, M.M, *et al.*, 1064

Enhancing the virulence of *Streptococcus sobrinus* in rats. Madison, K.M., *et al.*, 38

Guest editorial: a cavity-free generation. Moss, S.J., 158

In vitro acidogenic potential and mutans streptococci of human smooth-surface plaque associated with initial caries lesions and sound enamel. Van Houte, J., *et al.*, 1497

In vitro demineralization of enamel by F-sensitive and F-resistant mutans streptococci in the presence of 0, 0.05, or 0.5 mmol/L NaF. Van Loveren, C., *et al.*, 1491

Lack of correlation between food retention on the human dentition and consumer perception of food stickiness. Kashket, S., *et al.*, 1314

Prevalence of root caries in a diabetic population, The. Tavares, M., *et al.*, 979

Protection of rats against dental caries by passive immunization with hen-egg-yolk antibody (IgY). Otake, S., *et al.*, 162

Quantitative analysis of mineral loss and shrinkage of *in vitro* demineralized human root surfaces, A. Ten Cate, J.M., *et al.*, 1371

Remineralization and demineralization *in situ* from a triclosan/co-polymer/fluoride dentifrice. Mellberg, J.F., *et al.*, 1441

Review of quantitative methods for studies of mineral content of intra-oral incipient caries lesions, A. Ten Bosch, J.J. and Angmar-Månsson, B., 2

DENTAL CAVITY PREPARATION

Dentinal fluid movement associated with loading of restorations. Hirata, K., *et al.*, 975

Tandem-scanning microscopy of slow-speed enamel cutting interactions. Watson, T.F., 44

DENTAL CEMENTS

Adhesion to dentin and physical properties of a light-cured glass-ionomer liner/base. Mitra, S.B., 72

Destructive stresses in adhesive luting cements. Davidson, C.L., *et al.*, 880

Microleakage of three cement bases. Heys, R.J. and Fitzgerald, M., 55

Photo-activation of resin cements through porcelain veneers. Linden, J.J., *et al.*, 154

Physical properties of stainless-steel and silver-reinforced glass-ionomer cements. Kerby, R.E. and Bleiholder, R.F., 1358

DENTAL CEMENTUM

Alkaline phosphatase induces the deposition of calcified layers in relation to dentin: an *in vitro* study to mimic the formation of afibrillar acellular cementum. Beertsen, W. and Van Den Bos, T., 176

Cell attachment activity of cementum proteins and mechanism of endotoxin inhibition. Olson, S., *et al.*, 1272

DENTAL CEMENTUM *(Continued)*

Distribution of magnesium in developing rat incisor dentin, The. Steinfort, J., *et al.*, 187

DENTAL ENAMEL

Abrasion of human enamel by different dental ceramics *in vitro*. Seghi, R.R., *et al.*, 221

Acid-susceptibility of lesions in bovine enamel after remineralization at different pH values and in the presence of different fluoride concentrations. Lammers, P.D., *et al.*, 1486

Carbonate content in developing human and bovine enamel. Sydney-Zax, M., *et al.*, 913

Changes in acid-phosphate content in enamel mineral during porcine amelogenesis. Shimoda, S., *et al.*, 1516

Effect of EHDP concentration on enamel demineralization *in vitro*. Christofferson, J., *et al.*, 123

In vitro acidogenic potential and mutans streptococci of human smooth-surface plaque associated with initial caries lesions and sound enamel. Van Houte, J., *et al.*, 1497

In vitro demineralization of enamel by F-sensitive and F-resistant mutans streptococci in the presence of 0, 0.05, or 0.5 mmol/L NaF. Van Loveren, C., *et al.*, 1491

Influence of fluoride and carbonate on *in vitro* remineralization of bovine enamel. Lammers, P.C., 970

Permselectivity of sound and carious human dental enamel as measured by membrane potential. Carey, C.M., *et al.*, 1479

Scanning and contact microradiography study of the effect of degree of saturation on the rate of enamel demineralization. Gao, X.J., *et al.*, 1332

Serum fluoride level and fluoride content of enameloid. Prostak, K.S., *et al.*, 1266

Surface roughness of enamel-to-enamel contact areas compared with the intrinsic roughness of dental resin composites, The. Willems, G., *et al.*, 1299

Tandem-scanning microscopy of slow-speed enamel cutting interactions. Watson, T.F., 44

Upper central incisor and canine tooth crown size in 47,XXY males. Alvesalo, L., *et al.*, 1057

DENTAL HEALTH SURVEYS

Correlates of dental anxiety among older adults. Locker, D. and Liddell, A.M., 198

Dental caries and fluoride exposure in Western Australia. Riordan, P.J., 1029

Dental fluorosis and fluoride exposure in Western Australia. Riordan, P.J. and Banks, J.A., 1022

Effect of examining half the teeth in a partial periodontal recording of older adults. Hunt, R.J. and Fann, S.J., 1380

Guest editorial: longitudinal studies of aging and oral health. Garcia, R.I. and Chauncey, H.H., 865

DENTAL IMPLANTATION

Quantitative immunohistochemical analysis of keratins and desmoplakins in human gingiva and peri-implant mucosa. Carmichael, R.P., *et al.*, 899

DENTAL IMPLANTATION, ENDOSSEOUS

Effect of partial coating with hydroxyapatite on bone remodeling in relation to porous-coated titanium-alloy dental implants in the dog, The. Pilliar, R.M., *et al.*, 1338

Induction of calcium phosphate precipitation by titanium dioxide. Damen, J.J.M., *et al.*, 1346

DENTAL LEAKAGE

Microleakage of three cement bases. Heys, R.J. and Fitzgerald, M., 55

DENTAL MATERIALS

Development of low- and high-serum culture conditions for use of human oral fibroblasts in toxicity testing of dental materials. Liu, Y., *et al.*, 1068

DENTAL OCCLUSION

Conference report: feeding and dentofacial development. Nowak, A.J., 159

DENTAL PLAQUE

Changes in strains of mutans streptococci induced by treatment with chlorhexidine varnish. Kozai, K., *et al.*, 1252

Detection of two anaerobic periodontopathogens in children by means of the BANA and ELISA assays. Watson, M.-R., *et al.*, 1052

Effect of increased mastication by daily gum-chewing on salivary gland output and dental plaque acidogenicity, The. Dodds, M.W.J., *et al.*, 1474

Effects of ascorbic acid depletion and supplementation on periodontal health and subgingival microflora in humans. Leggott, P.J., *et al.*, 1531

Effects of salivary bicarbonate content and film velocity on pH changes in an artificial plaque containing *Streptococcus oralis*, after exposure to sucrose. MacPherson, L.M.D., *et al.*, 1235

Effects of salivary film velocity on pH changes in an artificial plaque containing *Streptococcus oralis*, after exposure to sucrose. MacPherson, L.M.D. and Dawes, C., 1230

Enhancing the virulence of *Streptococcus sobrinus* in rats. Madison, K.M., *et al.*, 38

Identification by biotinylated DNA probes of *Capnocytophaga* species isolated from supragingival calculus. Morita, M., *et al.*, 1048

In vitro acidogenic potential and mutans streptococci of human smooth-surface plaque associated with initial caries lesions and sound enamel. Van Houte, J., *et al.*, 1497

Multi-station dental plaque microcosm (artificial mouth) for the study of plaque growth, metabolism, pH, and mineralization. Sissons, C.H., *et al.*, 1409

Mutans streptococci, non-mutans streptococci acidogenic at low pH, and *in vitro* acidogenic potential of dental plaque in two different areas of the human dentition. Van Houte, J., *et al.*, 1503

Permselectivity of sound and carious human dental enamel as measured by membrane potential. Carey, C.M., *et al.*, 1479

Therapeutic mineral enrichment of dental plaque visualized by transmission electron microscopy. Pearce, E.I.F., *et al.*, 90

DENTAL PORCELAINS

Effect of cooling rate on leucite volume fraction in dental porcelains. Mackert, J.R., Jr. and Evans, A.L., 137

Effect of thermal tempering on strength and crack propagation behavior of feldspathic porcelains. Anusavice, K.J. and Hojjatie, B., 1009

Influence of initial flaw size on crack growth in air-tempered porcelain. Anusavice, K.J., *et al.*, 131

Photo-activation of resin cements through porcelain veneers. Linden, J.J., *et al.*, 154

DENTAL PULP

Application of the MTT colorimetric assay to measure cytotoxic effects of phenolic compounds on established rat dental pulp cells. Kasugai, S., *et al.*, 127

Cytotoxic effects of resin components on cultured mammalian fibroblasts. Hanks, C.T., 1450

Immunocytochemical evidence for the presence of somatostatin-like immunoreactive nerves in human dental pulp. Casasco, A., *et al.*, 87

Immunocytochemical evidence for the site of O-methylation in rat dental pulp. Inoue, K., *et al.*, 966

Reliability of pulpal blood-flow measurements utilizing laser doppler flowmetry. Ramsay, D.S., *et al.*, 1427

Role of leukotriene B_4 in neutrophil infiltration in experimentally-induced inflammation of rat tooth pulp. Okiji, T., *et al.*, 34

Scanning electron microscopic study of the contraction of vascular wall cells in dog dental pulp, A. Iijima, T., *et al.*, 1456

DENTAL PULP CAVITY

Dentinal fluid movement associated with loading of restorations. Hirata, K., *et al.*, 975

DENTAL SEALANTS (*see* **Pit and Fissure Sealants**)

DENTIFRICES

Remineralization and demineralization *in situ* from a triclosan/co-polymer/fluoride dentifrice. Mellberg, J.F., *et al.*, 1441

DENTIN

Acid profile in carious dentin. Hojo, S., *et al.*, 182

Adhesion to bovine dentin—surface characterization. Ruse, N.D. and Smith, D.C., 1002

DENTIN *(Continued)*

Adhesion to dentin and physical properties of a light-cured glass-ionomer liner/base. Mitra, S.B., 72
Alkaline phosphatase induces the deposition of calcified layers in relation to dentin: an *in vitro* study to mimic the formation of afibrillar acellular cementum. Beertsen, W. and Van Den Bos, T., 176
Bonding efficacy of erythritol methacrylate solutions as dentin primers. Manabe, A., *et al.*, 1294
Dentin bond strength of light-cured glass-ionomer cements. Hinoura, K., *et al.*, 1542
Dentin-bonding molar efficiency using *N*-phenylglycine, *N*-phenyl-beta-alanine, or *N*-methyl-*N*-phenylglycine. Webb, R.E. and Johnston, A.D., 211
Distribution of magnesium in developing rat incisor dentin, The. Steinfort, J., *et al.*, 187
Effect of 2-(methacryloxy)ethyl phenyl hydrogen phosphate on adhesion to dentin. Wang, T. and Nakabayashi, N., 59
Effect of local interfacial geometry on the measurement of the tensile bond strength to dentin, The. Van Noort, R., *et al.*, 889
Human dentin-matrix-derived bone morphogenetic protein. Bessho, K., *et al.*, 171
Importance of polymerization initiator systems and interfacial initiation of polymerization in adhesive bonding of resin to dentin. Imai, Y., *et al.*, 1088
In vitro fluoride release from a light-cured glass-ionomer liner/base. Mitra, S.B., 75
Microleakage of three cement bases. Heys, R.J. and Fitzgerald, M., 55
Presence of vesicles containing lactate dehydrogenase in the dentin of bovine tooth germs. Kitamura, C., *et al.*, 1444
Quantitative analysis of mineral loss and shrinkage of *in vitro* demineralized human root surfaces, A. Ten Cate, J.M., *et al.*, 1371
Serum fluoride level and fluoride content of enameloid. Prostak, K.S., *et al.*, 1266
Upper central incisor and canine tooth crown size in 47,XXY males. Alvesalo, L., *et al.*, 1057
Vibrational analysis by Raman spectroscopy of the interface between dental adhesive resin and dentin. Suzuki, M., *et al.*, 1092

DENTIN SENSITIVITY

Dentinal fluid movement associated with loading of restorations. Hirata, K., *et al.*, 975

DENTISTRY

Guest editorial: a cavity-free generation. Moss, S.J., 158
Guest editorial: but what of the caliber of our students? Waldman, H.B., 1390
Guest editorial: dental faculties: dilemmas and challenges. Gilboe, D.B., 79
Guest editorial: multi-disciplinary activities: the key to survival of dental education?—dental behavioral science's role. Smith, T.A., 938
Guest editorial: the dental diagnostic sciences and the future of dental practice. Razmus, T.F., 1309
Should dentists be doing what they do? (Editorial). Dawes, C., 1221

DENTURE, PARTIAL

Analysis of clinical studies on resin-bonded bridges, An. Creugers, N.H.J. and Van 'T Hof, M.A., 146

DENTURE LINERS

Chemical and molecular weight analyses of prosthodontic soft polymers. Jones, D.W., *et al.*, 874
Hamster cheek-pouch testing of dental soft polymers. Harsanyi, B.B., *et al.*, 991
In vivo and *in vitro* study of the loss of plasticizer from soft polymer-gel materials, An. Graham, B.S., *et al.*, 870

DESMOPLAKINS

Quantitative immunohistochemical analysis of keratins and desmoplakins in human gingiva and peri-implant mucosa. Carmichael, R.P., *et al.*, 899

DIABETES MELLITUS

Prevalence of root caries in a diabetic population, The. Tavares, M., *et al.*, 979

DIAGNOSIS, LABORATORY

Draft results of a workshop to develop guidelines for studies involving microbial incidence or populations in the oral cavity. Krichevsky, M.I., *et al.*, 226
Review of quantitative methods for studies of mineral content of intra-oral incipient caries lesions, A. Ten Bosch, J.J. and Angmar-Månsson, B., 2

DIET

Guest editorial: a cavity-free generation. Moss, S.J., 158
Risk factors in dental erosion. Järvinen, V.K., *et al.*, 942

7,12-DIMETHYLBENZANTHRACENE

Alteration in glutathione level during carcinogenesis of hamster buccal pouch mucosa. Zhang, L. and Mock. D., 1061

DMF INDEX

Eight-year follow-up of the occlusal surfaces of first permanent molars, An. Vehkalahti, M.M, *et al.*, 1064

DNA DAMAGE AND REPAIR

Enhanced replication of herpes simplex virus type 1 in human cells. Miller, C.S. and Smith, K.O., 111

DNA PROBES

Draft results of a workshop to develop guidelines for studies involving microbial incidence or populations in the oral cavity. Krichevsky, M.I., *et al.*, 226
Identification by biotinylated DNA probes of *Capnocytophaga* species isolated from supragingival calculus. Morita, M., *et al.*, 1048

DNA RESTRICTION ENZYMES

Changes in strains of mutans streptococci induced by treatment with chlorhexidine varnish. Kozai, K., *et al.*, 1252

DNA SYNTHESIS

Cytotoxic effects of resin components on cultured mammalian fibroblasts. Hanks, C.T., 1450

DOGS

Association of gingival crevicular fluid aspartate aminotransferase levels with histopathology during ligature-induced periodontitis in the beagle dog. Cohen, R.L., *et al.*, 984
Comparative study of fluoride pharmacokinetics in five species, A. Whitford, G.M., *et al.*, 948
Dentinal fluid movement associated with loading of restorations. Hirata, K., *et al.*, 975
Effect of low-level laser treatment on maxillary arch dimensions after palatal surgery on beagle dogs, The. In De Braekt, M.M.H., *et al.*, 1467
Effect of partial coating with hydroxyapatite on bone remodeling in relation to porous-coated titanium-alloy dental implants in the dog, The. Pilliar, R.M., *et al.*, 1338
Effect of thromboxane on contraction of canine mesenteric and lingual arteries, The. Greenberg, S.S., *et al.*, 1278
Effects of topical and systemic nicotine on gingival blood flow in dogs. Johnson, G.K., *et al.*, 906
Elastic modulus of the temporomandibular joint disc from adult dogs, The. Tanne, K., *et al.*, 1545
Experimental study in dogs of transseptal fiber arrangement between teeth which have emerged in rotated or non-rotated positions, An. Kusters, S.T., *et al.*, 192
Evaluation of new gingival retraction agents. Bowles, W.H., *et al.*, 1447
Scanning electron microscopic study of the contraction of vascular wall cells in dog dental pulp, A. Iijima, T., *et al.*, 1456

DOPPLER FLOWMETERS

Reliability of pulpal blood-flow measurements utilizing laser doppler flowmetry. Ramsay, D.S., *et al.*, 1427

EATING

Lack of correlation between food retention on the human dentition and consumer perception of food stickiness. Kashket, S., *et al.*, 1314

EDUCATION, DENTAL

Guest editorial: but what of the caliber of our students? Waldman, H.B., 1390

EDUCATION, DENTAL *(Continued)*

Guest editorial: dental faculties: dilemmas and challenges. Gilboe, D.B., 79
Guest editorial: multi-disciplinary activities: the key to survival of dental education?—dental behavioral science's role. Smith, T.A., 938
Guest editorial: taking mentoring seriously. Lopatin, D.E., 239
Guest editorial: the dental diagnostic sciences and the future of dental practice. Razmus, T.F., 1309
Guest editorial: the need for more tools. Chambers, D.W., 1098

EGG YOLK

Protection of rats against dental caries by passive immunization with hen-egg-yolk antibody (IgY). Otake, S., *et al.*, 162

EGTAZIC ACID

Effect of thromboxane on contraction of canine mesenteric and lingual arteries, The. Greenberg, S.S., *et al.*, 1278

EHDP (*see* Etidronate Disodium)

ELASTICITY

Elastic modulus of the temporomandibular joint disc from adult dogs, The. Tanne, K., *et al.*, 1545

ELECTROMYOGRAPHY

Electromyographic-force characteristics in the assessment of oral function. Lindauer, S.J., *et al.*, 1417

ELISA (*See* Enzyme-Linked Immunosorbent Assay)

EMBRYO

Relationship between the parotid gland and the facial nerve during human development. Espin-Ferra, J., *et al.*, 1035

ENDOTOXINS

Cell attachment activity of cementum proteins and mechanism of endotoxin inhibition. Olson, S., *et al.*, 1272

ENZYME-LINKED IMMUNOSORBENT ASSAY

Detection of two anaerobic periodontopathogens in children by means of the BANA and ELISA assays. Watson, M.-R., *et al.*, 1052

EOSINOPHILS

Cellular sources of transforming growth factor-alpha in human oral cancer. Todd, R., *et al.*, 917

EPIDEMIOLOGIC METHODS

Draft results of a workshop to develop guidelines for studies involving microbial incidence or populations in the oral cavity. Krichevsky, M.I., *et al.*, 226

EPIDERMAL GROWTH FACTOR-UROGASTRONE

Cellular sources of transforming growth factor-alpha in human oral cancer. Todd, R., *et al.*, 917

EPINEPHRINE

Evaluation of new gingival retraction agents. Bowles, W.H., *et al.*, 1447

EPITHELIUM

Age-related development of the long-junctional epithelium in the senescence-accelerated mouse. Sashima, M., *et al.*, 1462

ERYTHRITOL

Bonding efficacy of erythritol methacrylate solutions as dentin primers. Manabe, A., *et al.*, 1294

ETIDRONATE DISODIUM

Effect of EHDP concentration on enamel demineralization *in vitro*. Christofferson, J., *et al.*, 123

EXTRACELLULAR MATRIX

Presence of vesicles containing lactate dehydrogenase in the dentin of bovine tooth germs. Kitamura, C., *et al.*, 1444

FACE

Masseter muscle thickness measured by ultrasonography and its relation to facial morphology. Kiliaridis, S. and Kälebo, P., 1262

FACIAL BONES

Conference report: feeding and dentofacial development. Nowak, A.J., 159

FACIAL NERVE

Relationship between the parotid gland and the facial nerve during human development. Espin-Ferra, J., *et al.*, 1035

FATIGUE

Fatigue strength of a Au-Pd alloy/585 solder combination. Wiskott, H.W.A., *et al.*, 140
Tensile fatigue limits of prosthodontic adhesives. Aquilino, S.A., *et al.*, 208

FEAR

Correlates of dental anxiety among older adults. Locker, D. and Liddell, A.M., 198

FELINES (*see* Cats)

FETUS

Relationship between the parotid gland and the facial nerve during human development. Espin-Ferra, J., *et al.*, 1035

FIBROBLASTS

Cell attachment activity of cementum proteins and mechanism of endotoxin inhibition. Olson, S., *et al.*, 1272
Cytotoxic effects of resin components on cultured mammalian fibroblasts. Hanks, C.T., 1450
Development of low- and high-serum culture conditions for use of human oral fibroblasts in toxicity testing of dental materials. Liu, Y., *et al.*, 1068

FIBRONECTINS

Immunohistochemical localization of the matrix glycoproteins—tenascin and the ED-sequence-containing form of cellular fibronectin—in human permanent teeth and periodontal ligament. Lukinmaa, P.-L., *et al.*, 19

FILLERS

Refractive-index-adjustable fillers for visible-light-cured dental resin composites: preparation of TiO_2-SiO_2 glass powder by the sol-gel process. Suzuki, H., *et al.*, 883
Water and abrasive effects on three-body wear of composites. Sarrett, D.C., *et al.*, 1074

FISHES

Serum fluoride level and fluoride content of enameloid. Prostak, K.S., *et al.*, 1266

FLUORIDES

Acid-susceptibility of lesions in bovine enamel after remineralization at different pH values and in the presence of different fluor-ide concentrations. Lammers, P.D., *et al.*, 1486
Comparative study of fluoride pharmacokinetics in five species, A. Whitford, G.M., *et al.*, 948
Dental caries and fluoride exposure in Western Australia. Riordan, P.J., 1029
Dental fluorosis and fluoride exposure in Western Australia. Riordan, P.J. and Banks, J.A., 1022
Effects of fluoride and chlorhexidine on the microflora of dental root surfaces and progression of root-surface caries. Schaeken, M.J.M., *et al.*, 150
Guest editorial: a cavity-free generation. Moss, S.J., 158
Histomorphometric analysis of the effects of fluoride on experimental ectopic bone formation in the rat, A. Mohr, H. and Kragstrup, J., 957
In vitro demineralization of enamel by F-sensitive and F-resistant mutans streptococci in the presence of 0, 0.05, or 0.5 mmol/L NaF. Van Loveren, C., *et al.*, 1491
In vitro fluoride release from a light-cured glass-ionomer liner/base. Mitra, S.B., 75
Influence of fluoride and carbonate on *in vitro* remineralization of bovine enamel. Lammers, P.C., 970
Remineralization and demineralization *in situ* from a triclosan/co-polymer/fluoride dentifrice. Mellberg, J.F., *et al.*, 1441
Serum fluoride level and fluoride content of enameloid. Prostak, K.S., *et al.*, 1266

FLUORINE

Serum fluoride level and fluoride content of enameloid. Prostak, K.S., *et al.*, 1266

FLUOROSIS, DENTAL (*see* Mottled Enamel)

FOOD

Lack of correlation between food retention on the human dentition and consumer perception of food stickiness. Kashket, S., *et al.*, 1314

FRACTURES

Effect of thermal tempering on strength and crack propagation behavior of feldspathic porcelains. Anusavice, K.J. and Hojjatie, B., 1009

Tandem-scanning microscopy of slow-speed enamel cutting interactions. Watson, T.F., 44

FUCOSE

Synergistic degradation of mucin by *Streptococcus oralis* and *Streptococcus sanguis* in mixed chemostat cultures. Van der Hoeven, J.S. and Camp, P.J.M., 1041

GALACTOSIDASES

Chromosomal deletions in melibiose-negative isolates of *Streptococcus mutans*. Ushiro, I., *et al.*, 1422

GALLIUM

Release of elements of dental casting alloys into cell-culture medium, The. Wataha, J.C., *et al.*, 1014

GAMMA-GLUTAMYL TRANSPEPTIDASE

Alteration in glutathione level during carcinogenesis of hamster buccal pouch mucosa. Zhang, L. and Mock. D., 1061

GASTROINTESTINAL DISEASES

Risk factors in dental erosion. Järvinen, V.K., *et al.*, 942

GENETICS, MEDICAL

Twin study of genetic variation in proportional radiographic alveolar bone height, A. Michalowicz, B.S., *et al.*, 1431

GINGIVA

Age-related development of the long-junctional epithelium in the senescence-accelerated mouse. Sashima, M., *et al.*, 1462

Detection of two anaerobic periodontopathogens in children by means of the BANA and ELISA assays. Watson, M.-R., *et al.*, 1052

Effect of crown receipt on measures of gingival status, The. Bader, J., *et al.*, 1386

Effects of topical and systemic nicotine on gingival blood flow in dogs. Johnson, G.K., *et al.*, 906

Evaluation of new gingival retraction agents. Bowles, W.H., *et al.*, 1447

Identification by biotinylated DNA probes of *Capnocytophaga* species isolated from supragingival calculus. Morita, M., *et al.*, 1048

Quantitative immunohistochemical analysis of keratins and desmoplakins in human gingiva and peri-implant mucosa. Carmichael, R.P., *et al.*, 899

Single-dose concentrations of tinidazole in gingival crevicular fluid, serum, and gingival tissue in adults with periodontitis. Liew, V., *et al.*, 910

GINGIVAL CREVICULAR FLUID

Association of gingival crevicular fluid aspartate aminotransferase levels with histopathology during ligature-induced periodontitis in the beagle dog. Cohen, R.L., *et al.*, 984

Single-dose concentrations of tinidazole in gingival crevicular fluid, serum, and gingival tissue in adults with periodontitis. Liew, V., *et al.*, 910

GINGIVAL HEMORRHAGE

Effects of ascorbic acid depletion and supplementation on periodontal health and subgingival microflora in humans. Leggott, P.J., *et al.*, 1531

GINGIVAL POCKET

Reproducibility and sensitivity of oral malodor measurements with a portable sulphide monitor. Rosenberg, M., 1436

GLASS-IONOMER CEMENTS

Adhesion to dentin and physical properties of a light-cured glass-ionomer liner/base. Mitra, S.B., 72

Dentin bond strength of light-cured glass-ionomer cements. Hinoura, K., *et al.*, 1542

Destructive stresses in adhesive luting cements. Davidson, C.L., *et al.*, 880

In vitro fluoride release from a light-cured glass-ionomer liner/base. Mitra, S.B., 75

Microleakage of three cement bases. Heys, R.J. and Fitzgerald, M., 55

Physical properties of stainless-steel and silver-reinforced glass-ionomer cements. Kerby, R.E. and Bleiholder, R.F., 1358

GLUCOSIDASES

Chromosomal deletions in melibiose-negative isolates of *Streptococcus mutans*. Ushiro, I., *et al.*, 1422

GLUTATHIONE

Alteration in glutathione level during carcinogenesis of hamster buccal pouch mucosa. Zhang, L. and Mock. D., 1061

Development of low- and high-serum culture conditions for use of human oral fibroblasts in toxicity testing of dental materials. Liu, Y., *et al.*, 1068

GLYCOPROTEINS

Immunohistochemical localization of the matrix glycoproteins—tenascin and the ED-sequence-containing form of cellular fibronectin—in human permanent teeth and periodontal ligament. Lukinmaa, P.-L., *et al.*, 19

GOLD

Age-hardening mechanisms in a commercial dental gold alloy containing platinum and palladium. Tani, T., *et al.*, 1350

Release of elements of dental casting alloys into cell-culture medium, The. Wataha, J.C., *et al.*, 1014

GOLD ALLOYS

Fatigue strength of a Au-Pd alloy/585 solder combination. Wiskott, H.W.A., *et al.*, 140

GROWTH

Areas of various surfaces in the human mouth from nine years to adulthood, The. Kerr, W.J.S., *et al.*, 1528

Characteristics of masticatory mandibular movements and velocity in growing individuals and young adults. Kiliaridis, S., *et al.*, 1367

Relationship between the parotid gland and the facial nerve during human development. Espin-Ferra, J., *et al.*, 1035

HALITOSIS

Reproducibility and sensitivity of oral malodor measurements with a portable sulphide monitor. Rosenberg, M., 1436

HAMSTERS

Alteration in glutathione level during carcinogenesis of hamster buccal pouch mucosa. Zhang, L. and Mock. D., 1061

Comparative study of fluoride pharmacokinetics in five species, A. Whitford, G.M., *et al.*, 948

Hamster cheek-pouch testing of dental soft polymers. Harsanyi, B.B., *et al.*, 991

HARDNESS

Abrasion of human enamel by different dental ceramics *in vitro*. Seghi, R.R., *et al.*, 221

Age-hardening mechanisms in a commercial dental gold alloy containing platinum and palladium. Tani, T., *et al.*, 1350

HERPESVIRUS HOMINIS

Enhanced replication of herpes simplex virus type 1 in human cells. Miller, C.S. and Smith, K.O., 111

HISTONES

Cellular sources of transforming growth factor-alpha in human oral cancer. Todd, R., *et al.*, 917

HUMAN DEVELOPMENT (*see* Growth)

HYDROGEN-ION CONCENTRATION

Acid-susceptibility of lesions in bovine enamel after remineralization at different pH values and in the presence of different fluoride concentrations. Lammers, P.D., *et al.*, 1486

HYDROGEN-ION CONCENTRATION *(Continued)*

Effects of salivary bicarbonate content and film velocity on pH changes in an artificial plaque containing *Streptococcus oralis*, after exposure to sucrose. MacPherson, L.M.D., *et al.*, 1235

Effects of salivary film velocity on pH changes in an artificial plaque containing *Streptococcus oralis*, after exposure to sucrose. MacPherson, L.M.D. and Dawes, C., 1230

In vitro acidogenic potential and mutans streptococci of human smooth-surface plaque associated with initial caries lesions and sound enamel. Van Houte, J., *et al.*, 1497

Mutans streptococci, non-mutans streptococci acidogenic at low pH, and *in vitro* acidogenic potential of dental plaque in two different areas of the human dentition. Van Houte, J., *et al.*, 1503

HYDROXYAPATITES

Association of proteases of *Porphyromonas (Bacteroides) gingivalis* with its adhesion to *Actinomyces viscosus*. Li, J., *et al.*, 82

Effect of partial coating with hydroxyapatite on bone remodeling in relation to porous-coated titanium-alloy dental implants in the dog, The. Pilliar, R.M., *et al.*, 1338

Scanning and contact microradiography study of the effect of degree of saturation on the rate of enamel demineralization. Gao, X.J., *et al.*, 1332

HYDROXYETHYL METHACRYLATE

Effect of catalyst structure on the synthesis of a dental restorative monomer. Farahani, M., *et al.*, 67

HYPERPLASIA

Compensatory hyperplasia of the rat submandibular gland following unilateral extirpation. Schwartz-Arad, D., *et al.*, 1328

HYPOSALIVATION (*see* **Xerostomia**)

IADR/AADR

Abstracts, IADR/AADR, 266-596

Divisional abstracts, 636-864

Guest editorial: "Trust no future, however pleasant; ...Act, act in the living present." Squier, C.A., 1019

IADR/AADR Council proceedings, general and annual sessions, 1102-1214

IMMUNIZATION, PASSIVE

Protection of rats against dental caries by passive immunization with hen-egg-yolk antibody (IgY). Otake, S., *et al.*, 162

IMMUNOGLOBULINS

Immunoglobulin isotypes in human minor gland saliva. Smith, D.J., *et al.*, 167

IMMUNOHISTOCHEMISTRY

Immunocytochemical evidence for the site of O-methylation in rat dental pulp. Inoue, K., *et al.*, 966

IMMUNOLOGIC TECHNIQUES

Draft results of a workshop to develop guidelines for studies involving microbial incidence or populations in the oral cavity. Krichevsky, M.I., *et al.*, 226

IMPLANTS, DENTAL (*see* **Dental Implantation**)

INCISOR

Upper central incisor and canine tooth crown size in 47,XXY males. Alvesalo, L., *et al.*, 1057

INDIUM

Release of elements of dental casting alloys into cell-culture medium, The. Wataha, J.C., *et al.*, 1014

INFLAMMATION

Effect of crown receipt on measures of gingival status, The. Bader, J., *et al.*, 1386

Kinetics of bone-resorbing activity in developing periapical lesions. Wang, C.-Y. and Stashenko, P., 1362

Role of leukotriene B_4 in neutrophil infiltration in experimentally-induced inflammation of rat tooth pulp. Okiji, T., *et al.*, 34

INTERLEUKIN-1

Human periodontal ligament fibroblast clone releases a bone resorption inhibition factor *in vitro*, A. Giniger, M.S., *et al.*, 99

Involvement of PGE synthesis in the effect of intermittent pressure and interleukin-1ß on bone resorption. Saito, S., *et al.*, 27

ION EXCHANGE

Permselectivity of sound and carious human dental enamel as measured by membrane potential. Carey, C.M., *et al.*, 1479

IONOMERS

Adhesion to dentin and physical properties of a light-cured glass-ionomer liner/base. Mitra, S.B., 72

IONS

Enumeration of oral streptococci on media containing different concentrations of sodium and potassium ions. Willcox, M.D.P., *et al.*, 1375

IRON

Effect of transferrin on the growth of *Porphyromonas gingivalis*. Inoshita, E., *et al.*, 1258

ISOPROTERENOL

Effects of autonomic drugs on the concentration of kallikrein-like proteases and cysteine-proteinase inhibitor (cystatin) in rat whole saliva, The. Bedi, G.S., 924

JAW

Effect of particle size reduction on the jaw gape in human mastication, The. Van Der Bilt, A., *et al.*, 931

JAW RELATION RECORD

Conference report: feeding and dentofacial development. Nowak, A.J., 159

JOURNAL OF DENTAL RESEARCH

what does the editor actually do? (Editorial). Dawes, C., 1220

KALLIKREIN

Effects of autonomic drugs on the concentration of kallikrein-like proteases and cysteine-proteinase inhibitor (cystatin) in rat whole saliva, The. Bedi, G.S., 924

KERATIN

Quantitative immunohistochemical analysis of keratins and desmoplakins in human gingiva and peri-implant mucosa. Carmichael, R.P., *et al.*, 899

KLINEFELTER'S SYNDROME

Upper central incisor and canine tooth crown size in 47,XXY males. Alvesalo, L., *et al.*, 1057

LABORATORIES, DENTAL

Draft results of a workshop to develop guidelines for studies involving microbial incidence or populations in the oral cavity. Krichevsky, M.I., *et al.*, 226

LACTATE DEHYDROGENASE

Presence of vesicles containing lactate dehydrogenase in the dentin of bovine tooth germs. Kitamura, C., *et al.*, 1444

LACTATES

Acid profile in carious dentin. Hojo, S., *et al.*, 182

In vitro demineralization of enamel by F-sensitive and F-resistant mutans streptococci in the presence of 0, 0.05, or 0.5 mmol/L NaF. Van Loveren, C., *et al.*, 1491

LACTOBACILLUS

Use of an intra-oral model to evaluate 0.05% sodium fluoride mouthrinse in radiation-induced hyposalivation. Meyerowitz, C., *et al.*, 894

LASERS

Effect of low-level laser treatment on maxillary arch dimensions after palatal surgery on beagle dogs, The. In De Braekt, M.M.H., *et al.*, 1467

LEAKAGE (*see* **Dental Leakage**)

LEUCITE

Effect of cooling rate on leucite volume fraction in dental porcelains. Mackert, J.R., Jr. and Evans, A.L., 137

LEUKOTRIENES B

Role of leukotriene B_4 in neutrophil infiltration in experimentally-induced inflammation of rat tooth pulp. Okiji, T., *et al.*, 34

LIGHT CURING (*see* CURING)

LINGUAL ARTERIES

Effect of thromboxane on contraction of canine mesenteric and lingual arteries, The. Greenberg, S.S., *et al.*, 1278

LONGITUDINAL STUDIES

Guest editorial: longitudinal studies of aging and oral health. Garcia, R.I. and Chauncey, H.H., 865

MAGNESIUM

Distribution of magnesium in developing rat incisor dentin, The. Steinfort, J., *et al.*, 187

MANDIBLE

Characteristics of masticatory mandibular movements and velocity in growing individuals and young adults. Kiliaridis, S., *et al.*, 1367

MASSETER MUSCLE

Masseter muscle thickness measured by ultrasonography and its relation to facial morphology. Kiliaridis, S. and Kälebo, P., 1262

MASTICATION

Characteristics of masticatory mandibular movements and velocity in growing individuals and young adults. Kiliaridis, S., *et al.*, 1367

Effect of increased mastication by daily gum-chewing on salivary gland output and dental plaque acidogenicity, The. Dodds, M.W.J., *et al.*, 1474

Effect of particle size reduction on the jaw gape in human mastication, The. Van Der Bilt, A., *et al.*, 931

MASTICATORY MUSCLES

Electromyographic-force characteristics in the assessment of oral function. Lindauer, S.J., *et al.*, 1417

Power and sample size calculations for clinical trials of myofascial pain of jaw muscles. Dao, T.T.T., *et al.*, 118

MATRIX, EXTRACELLULAR (*see* Extracellular Matrix)

MATRIX PROTEINS

Immunohistochemical localization of the matrix glycoproteins—tenascin and the ED-sequence-containing form of cellular fibronectin—in human permanent teeth and periodontal ligament. Lukinmaa, P.-L., *et al.*, 19

MAXILLA

Effect of low-level laser treatment on maxillary arch dimensions after palatal surgery on beagle dogs, The. In De Braekt, M.M.H., *et al.*, 1467

MELIBIOSE

Chromosomal deletions in melibiose-negative isolates of *Streptococcus mutans*. Ushiro, I., *et al.*, 1422

MEMBRANE POTENTIALS

Permselectivity of sound and carious human dental enamel as measured by membrane potential. Carey, C.M., *et al.*, 1479

MENTORS

Guest editorial: taking mentoring seriously. Lopatin, D.E., 239

MESENTERIC ARTERIES

Effect of thromboxane on contraction of canine mesenteric and lingual arteries, The. Greenberg, S.S., *et al.*, 1278

META-ANALYSIS

Analysis of clinical studies on resin-bonded bridges, An. Creugers, N.H.J. and Van 'T Hof, M.A., 146

METHACRYLATES

Bonding efficacy of erythritol methacrylate solutions as dentin primers. Manabe, A., *et al.*, 1294

Chemical and molecular weight analyses of prosthodontic soft polymers. Jones, D.W., *et al.*, 874

Effect of 2-(methacryloxy)ethyl phenyl hydrogen phosphate on adhesion to dentin. Wang, T. and Nakabayashi, N., 59

Effect of catalyst structure on the synthesis of a dental restorative monomer. Farahani, M., *et al.*, 67

In vivo and *in vitro* study of the loss of plasticizer from soft polymer-gel materials, An. Graham, B.S., *et al.*, 870

METRONIDAZOLE

Single-dose concentrations of tinidazole in gingival crevicular fluid, serum, and gingival tissue in adults with periodontitis. Liew, V., *et al.*, 910

MICE

Age-related development of the long-junctional epithelium in the senescence-accelerated mouse. Sashima, M., *et al.*, 1462

Involvement of PGE synthesis in the effect of intermittent pressure and interleukin-1ß on bone resorption. Saito, S., *et al.*, 27

MICROLEAKAGE (*See* Dental Leakage)

MICRORADIOGRAPHY

Scanning and contact microradiography study of the effect of degree of saturation on the rate of enamel demineralization. Gao, X.J., *et al.*, 1332

MICROSCOPY

Review of quantitative methods for studies of mineral content of intra-oral incipient caries lesions, A. Ten Bosch, J.J. and Angmar-Månsson, B., 2

Tandem-scanning microscopy of slow-speed enamel cutting interactions. Watson, T.F., 44

Video microscope observations of human premolar eruption. Proffit, W.R., *et al.*, 15

MICROSCOPY, ELECTRON

Therapeutic mineral enrichment of dental plaque visualized by transmission electron microscopy. Pearce, E.I.F., *et al.*, 90

MICROSCOPY, ELECTRON, SCANNING

Adhesion to bovine dentin—surface characterization. Ruse, N.D. and Smith, D.C., 1002

Scanning electron microscopic study of the contraction of vascular wall cells in dog dental pulp, A. Iijima, T., *et al.*, 1456

MICROSCOPY, FLUORESCENCE

Immunocytochemical evidence for the presence of somatostatin-like immunoreactive nerves in human dental pulp. Casasco, A., *et al.*, 87

MINERALS

Carbonate content in developing human and bovine enamel. Sydney-Zax, M., *et al.*, 913

Review of quantitative methods for studies of mineral content of intra-oral incipient caries lesions, A. Ten Bosch, J.J. and Angmar-Månsson, B., 2

Therapeutic mineral enrichment of dental plaque visualized by transmission electron microscopy. Pearce, E.I.F., *et al.*, 90

MODELS, DENTAL

Effects of salivary film velocity on pH changes in an artificial plaque containing *Streptococcus oralis*, after exposure to sucrose. MacPherson, L.M.D. and Dawes, C., 1230

MODELS, STATISTICAL

Classification tree prediction models for dental caries from clinical, microbiological, and interview data. Stewart, P.W. and Stamm, J.W., 1239

MOLAR

Eight-year follow-up of the occlusal surfaces of first permanent molars, An. Vehkalahti, M.M, *et al.*, 1064

MOTTLED ENAMEL

Dental fluorosis and fluoride exposure in Western Australia. Riordan, P.J. and Banks, J.A., 1022

MOTTLED ENAMEL *(Continued)*

Severity of dental fluorosis in children exposed to water with a high fluoride content for various period of time, The. Ishii, T. and Suckling, G., 952

MOUTH

Areas of various surfaces in the human mouth from nine years to adulthood, The. Kerr, W.J.S., *et al.*, 1528

Draft results of a workshop to develop guidelines for studies involving microbial incidence or populations in the oral cavity. Krichevsky, M.I., *et al.*, 226

Multi-station dental plaque microcosm (artificial mouth) for the study of plaque growth, metabolism, pH, and mineralization. Sissons, C.H., *et al.*, 1409

MOUTH MUCOSA (*see* **Oral Mucosa**)

MOUTH NEOPLASMS (*see* **Oral Neoplasms**)

MOUTHWASHES

Use of an intra-oral model to evaluate 0.05% sodium fluoride mouthrinse in radiation-induced hyposalivation. Meyerowitz, C., *et al.*, 894

MRNA (*see* **RNA, Messenger**)

MTT COLORIMETRIC ASSAY

Application of the MTT colorimetric assay to measure cytotoxic effects of phenolic compounds on established rat dental pulp cells. Kasugai, S., *et al.*, 127

MUCINS

Age-related changes in mucins from human whole saliva. Denny, P.C., *et al.*, 1320

Synergistic degradation of mucin by *Streptococcus oralis* and *Streptococcus sanguis* in mixed chemostat cultures. Van der Hoeven, J.S. and Camp, P.J.M., 1041

MUCOSA (*see* **Oral Mucosa**)

MUCOUS MEMBRANE

Hamster cheek-pouch testing of dental soft polymers. Harsanyi, B.B., *et al.*, 991

MYOFASCIAL PAIN SYNDROMES

Power and sample size calculations for clinical trials of myofascial pain of jaw muscles. Dao, T.T.T., *et al.*, 118

NERVES

Immunocytochemical evidence for the presence of somatostatin-like immunoreactive nerves in human dental pulp. Casasco, A., *et al.*, 87

Relationship between the parotid gland and the facial nerve during human development. Espin-Ferra, J., *et al.*, 1035

NEUROPEPTIDES

Immunocytochemical evidence for the presence of somatostatin-like immunoreactive nerves in human dental pulp. Casasco, A., *et al.*, 87

NEUTROPHILS

Analysis of neutrophil chemotaxis and CD11b expression in pre-pubertal periodontitis. Watanabe, K., *et al.*, 102

Role of leukotriene B_4 in neutrophil infiltration in experimentally-induced inflammation of rat tooth pulp. Okiji, T., *et al.*, 34

NICKEL

Release of elements of dental casting alloys into cell-culture medium, The. Wataha, J.C., *et al.*, 1014

NICOTINE

Effects of topical and systemic nicotine on gingival blood flow in dogs. Johnson, G.K., *et al.*, 906

NITROANILIDES

Studies on the subcellular localization of protease and arylaminopeptidase activities in *Streptococcus sanguis* ATCC 10556. Cowman, R.A. and Baron, S.S., 1508

NITROGEN COMPOUNDS

Dentin-bonding molar efficiency using *N*-phenylglycine, *N*-phenyl-beta-alanine, or *N*-methyl-*N*-phenylglycine. Webb, R.E. and Johnston, A.D., 211

NITROUS OXIDE

Influence of operatory size and nitrous oxide concentration upon scavenger effectiveness. Henry, R.J. and Primosch, R.E., 1286

NOREPINEPHRINE

Scanning electron microscopic study of the contraction of vascular wall cells in dog dental pulp, A. Iijima, T., *et al.*, 1456

NUCLEIC ACID PROBES

Draft results of a workshop to develop guidelines for studies involving microbial incidence or populations in the oral cavity. Krichevsky, M.I., *et al.*, 226

OLIGOSACCHARIDES

Synergistic degradation of mucin by *Streptococcus oralis* and *Streptococcus sanguis* in mixed chemostat cultures. Van der Hoeven, J.S. and Camp, P.J.M., 1041

ORAL HEALTH

Effect of examining half the teeth in a partial periodontal recording of older adults. Hunt, R.J. and Fann, S.J., 1380

Guest editorial: longitudinal studies of aging and oral health. Garcia, R.I. and Chauncey, H.H., 865

ORAL HYGIENE

Guest editorial: a cavity-free generation. Moss, S.J., 158

Lack of correlation between food retention on the human dentition and consumer perception of food stickiness. Kashket, S., *et al.*, 1314

ORAL MUCOSA

Development of low- and high-serum culture conditions for use of human oral fibroblasts in toxicity testing of dental materials. Liu, Y., *et al.*, 1068

Quantitative immunohistochemical analysis of keratins and desmoplakins in human gingiva and peri-implant mucosa. Carmichael, R.P., *et al.*, 899

ORAL NEOPLASMS

Cellular sources of transforming growth factor-alpha in human oral cancer. Todd, R., *et al.*, 917

ORTHODONTICS, CORRECTIVE

Experimental study in dogs of transseptal fiber arrangement between teeth which have emerged in rotated or non-rotated positions, An. Kusters, S.T., *et al.*, 192

OSTEOGENESIS

Histomorphometric analysis of the effects of fluoride on experimental ectopic bone formation in the rat, A. Mohr, H. and Kragstrup, J., 957

OXYMETAZOLINE

Evaluation of new gingival retraction agents. Bowles, W.H., *et al.*, 1447

PALATE

Effect of low-level laser treatment on maxillary arch dimensions after palatal surgery on beagle dogs, The. In De Braekt, M.M.H., *et al.*, 1467

PALLADIUM

Age-hardening mechanisms in a commercial dental gold alloy containing platinum and palladium. Tani, T., *et al.*, 1350

Release of elements of dental casting alloys into cell-culture medium, The. Wataha, J.C., *et al.*, 1014

PARATHYROID HORMONES

Human periodontal ligament fibroblast clone releases a bone resorption inhibition factor *in vitro*, A. Giniger, M.S., *et al.*, 99

PAROTID GLAND (*see* **Salivary Glands**)

PEPTIDASE

Identification by biotinylated DNA probes of *Capnocytophaga* species isolated from supragingival calculus. Morita, M., *et al.*, 1048

PERIAPICAL TISSUE

Kinetics of bone-resorbing activity in developing periapical lesions. Wang, C.-Y. and Stashenko, P., 1362

PERIODONTAL DISEASES

Detection of two anaerobic periodontopathogens in children by means of the BANA and ELISA assays. Watson, M.-R., *et al.*, 1052

Prevalence of root caries in a diabetic population, The. Tavares, M., *et al.*, 979

Reproducibility and sensitivity of oral malodor measurements with a portable sulphide monitor. Rosenberg, M., 1436

PERIODONTAL INDEX

Effect of crown receipt on measures of gingival status, The. Bader, J., *et al.*, 1386

Effect of examining half the teeth in a partial periodontal recording of older adults. Hunt, R.J. and Fann, S.J., 1380

PERIODONTAL LIGAMENT

Alkaline phosphatase induces the deposition of calcified layers in relation to dentin: an *in vitro* study to mimic the formation of afibrillar acellular cementum. Beertsen, W. and Van Den Bos, T., 176

Experimental study in dogs of transseptal fiber arrangement between teeth which have emerged in rotated or non-rotated positions, An. Kusters, S.T., *et al.*, 192

Human periodontal ligament fibroblast clone releases a bone resorption inhibition factor *in vitro*, A. Giniger, M.S., *et al.*, 99

Immunohistochemical localization of the matrix glycoproteins—tenascin and the ED-sequence-containing form of cellular fibronectin—in human permanent teeth and periodontal ligament. Lukinmaa, P.-L., *et al.*, 19

Involvement of PGE synthesis in the effect of intermittent pressure and interleukin-1ß on bone resorption. Saito, S., *et al.*, 27

PERIODONTITIS

Analysis of neutrophil chemotaxis and CD11b expression in pre-pubertal periodontitis. Watanabe, K., *et al.*, 102

Association of gingival crevicular fluid aspartate aminotransferase levels with histopathology during ligature-induced periodontitis in the beagle dog. Cohen, R.L., *et al.*, 984

Detection of periodontal disease activity with a scintillation camera. Reddy, M.S., *et al.*, 50

Effect of periodontal therapy on salivary pseudocholinesterase activity, The. Yamalik, N., *et al.*, 988

Single-dose concentrations of tinidazole in gingival crevicular fluid, serum, and gingival tissue in adults with periodontitis. Liew, V., *et al.*, 910

PERIODONTIUM

Effects of ascorbic acid depletion and supplementation on periodontal health and subgingival microflora in humans. Leggott, P.J., *et al.*, 1531

PERIOSTEUM

Effects of calcium-phosphate-based materials on proliferation and alkaline phosphatase activity of newborn rat periosteal cells *in vitro*. Teti, A., *et al.*, 997

PERMEABILITY

Permselectivity of sound and carious human dental enamel as measured by membrane potential. Carey, C.M., *et al.*, 1479

pH (*see* Hydrogen-Ion Concentration)

PHENOLS

Application of the MTT colorimetric assay to measure cytotoxic effects of phenolic compounds on established rat dental pulp cells. Kasugai, S., *et al.*, 127

PHENYL HYDROGEN PHOSPHATE

Effect of 2-(methacryloxy)ethyl phenyl hydrogen phosphate on adhesion to dentin. Wang, T. and Nakabayashi, N., 59

PHENYLALANINE

Dentin-bonding molar efficiency using *N*-phenylglycine, *N*-phenyl-beta-alanine, or *N*-methyl-*N*-phenylglycine. Webb, R.E. and Johnston, A.D., 211

PHENYLEPHRINE

Effects of autonomic drugs on the concentration of kallikrein-like proteases and cysteine-proteinase inhibitor (cystatin) in rat whole saliva, The. Bedi, G.S., 924

Evaluation of new gingival retraction agents. Bowles, W.H., *et al.*, 1447

PHENYLGLYCINE

Dentin-bonding molar efficiency using *N*-phenylglycine, *N*-phenyl-beta-alanine, or *N*-methyl-*N*-phenylglycine. Webb, R.E. and Johnston, A.D., 211

PHOSPHATES

Changes in acid-phosphate content in enamel mineral during porcine amelogenesis. Shimoda, S., *et al.*, 1516

Therapeutic mineral enrichment of dental plaque visualized by transmission electron microscopy. Pearce, E.I.F., *et al.*, 90

PHOSPHORUS

Carbonate content in developing human and bovine enamel. Sydney-Zax, M., *et al.*, 913

PIGS (*see* Swine)

PIT AND FISSURE SEALANTS

Clinical trial in adults of an antimicrobial varnish for reducing mutans streptococci. Sandham, H.J., 1401

Eight-year follow-up of the occlusal surfaces of first permanent molars, An. Vehkalahti, M.M, *et al.*, 1064

PLASTICIZERS

Chemical and molecular weight analyses of prosthodontic soft polymers. Jones, D.W., *et al.*, 874

Hamster cheek-pouch testing of dental soft polymers. Harsanyi, B.B., *et al.*, 991

In vivo and *in vitro* study of the loss of plasticizer from soft polymer-gel materials, An. Graham, B.S., *et al.*, 870

PLATINUM

Age-hardening mechanisms in a commercial dental gold alloy containing platinum and palladium. Tani, T., *et al.*, 1350

POLYMERIZATION

Effect of 2-(methacryloxy)ethyl phenyl hydrogen phosphate on adhesion to dentin. Wang, T. and Nakabayashi, N., 59

Importance of polymerization initiator systems and interfacial initiation of polymerization in adhesive bonding of resin to dentin. Imai, Y., *et al.*, 1088

POLYMERIZATION CONTRACTION

Bonding efficacy of erythritol methacrylate solutions as dentin primers. Manabe, A., *et al.*, 1294

POLYMERS

Chemical and molecular weight analyses of prosthodontic soft polymers. Jones, D.W., *et al.*, 874

Hamster cheek-pouch testing of dental soft polymers. Harsanyi, B.B., *et al.*, 991

In vivo and *in vitro* study of the loss of plasticizer from soft polymer-gel materials, An. Graham, B.S., *et al.*, 870

POLYMETHACRYLIC ACIDS

Chemical and molecular weight analyses of prosthodontic soft polymers. Jones, D.W., *et al.*, 874

In vivo and *in vitro* study of the loss of plasticizer from soft polymer-gel materials, An. Graham, B.S., *et al.*, 870

POLYURETHANES

Clinical trial in adults of an antimicrobial varnish for reducing mutans streptococci. Sandham, H.J., 1401

PORPHYROMONAS GINGIVALIS

Association of proteases of *Porphyromonas (Bacteroides) gingivalis* with its adhesion to *Actinomyces viscosus*. Li, J., *et al.*, 82

Detection of two anaerobic periodontopathogens in children by means of the BANA and ELISA assays. Watson, M.-R., *et al.*, 1052

Effect of transferrin on the growth of *Porphyromonas gingivalis*. Inoshita, E., *et al.*, 1258

STREPTOCOCCUS

MUTANS *(Continued)*

Enumeration of oral streptococci on media containing different concentrations of sodium and potassium ions. Willcox, M.D.P., *et al.*, 1375

In vitro acidogenic potential and mutans streptococci of human smooth-surface plaque associated with initial caries lesions and sound enamel. Van Houte, J., *et al.*, 1497

In vitro demineralization of enamel by F-sensitive and F-resistant mutans streptococci in the presence of 0, 0.05, or 0.5 mmol/L NaF. Van Loveren, C., *et al.*, 1491

Mutans streptococci, non-mutans streptococci acidogenic at low pH, and *in vitro* acidogenic potential of dental plaque in two different areas of the human dentition. Van Houte, J., *et al.*, 1503

Protection of rats against dental caries by passive immunization with hen-egg-yolk antibody (IgY). Otake, S., *et al.*, 162

Use of an intra-oral model to evaluate 0.05% sodium fluoride mouthrinse in radiation-induced hyposalivation. Meyerowitz, C., *et al.*, 894

ORALIS

Effects of salivary bicarbonate content and film velocity on pH changes in an artificial plaque containing *Streptococcus oralis*, after exposure to sucrose. MacPherson, L.M.D., *et al.*, 1235

Effects of salivary film velocity on pH changes in an artificial plaque containing *Streptococcus oralis*, after exposure to sucrose. MacPherson, L.M.D. and Dawes, C., 1230

Synergistic degradation of mucin by *Streptococcus oralis* and *Streptococcus sanguis* in mixed chemostat cultures. Van der Hoeven, J.S. and Camp, P.J.M., 1041

SANGUIS

Studies on the subcellular localization of protease and arylaminopeptidase activities in *Streptococcus sanguis* ATCC 10556. Cowman, R.A. and Baron, S.S., 1508

Synergistic degradation of mucin by *Streptococcus oralis* and *Streptococcus sanguis* in mixed chemostat cultures. Van der Hoeven, J.S. and Camp, P.J.M., 1041

SOBRINUS

Enhancing the virulence of *Streptococcus sobrinus* in rats. Madison, K.M., *et al.*, 38

In vitro demineralization of enamel by F-sensitive and F-resistant mutans streptococci in the presence of 0, 0.05, or 0.5 mmol/L NaF. Van Loveren, C., *et al.*, 1491

STRESS, MECHANICAL

Destructive stresses in adhesive luting cements. Davidson, C.L., *et al.*, 880

Effect of local interfacial geometry on the measurement of the tensile bond strength to dentin, The. Van Noort, R., *et al.*, 889

Elastic modulus of the temporomandibular joint disc from adult dogs, The. Tanne, K., *et al.*, 1545

Fatigue strength of a Au-Pd alloy/585 solder combination. Wiskott, H.W.A., *et al.*, 140

Influence of initial flaw size on crack growth in air-tempered porcelain. Anusavice, K.J., *et al.*, 131

SUBMANDIBULAR GLAND (*see* **Salivary Glands**)

SUBSTANCE P

Immunocytochemical evidence for the presence of somatostatin-like immunoreactive nerves in human dental pulp. Casasco, A., *et al.*, 87

SUCKING BEHAVIOR

Conference report: feeding and dentofacial development. Nowak, A.J., 159

SUCROSE

Effects of salivary bicarbonate content and film velocity on pH changes in an artificial plaque containing *Streptococcus oralis*, after exposure to sucrose. MacPherson, L.M.D., *et al.*, 1235

Effects of salivary film velocity on pH changes in an artificial plaque containing *Streptococcus oralis*, after exposure to sucrose. MacPherson, L.M.D. and Dawes, C., 1230

SUGARS (*see* **Carbohydrates**)

SULFIDES

Reproducibility and sensitivity of oral malodor measurements with a portable sulphide monitor. Rosenberg, M., 1436

SURFACE PROPERTIES

Surface roughness of enamel-to-enamel contact areas compared with the intrinsic roughness of dental resin composites, The. Willems, G., *et al.*, 1299

SWINE

Changes in acid-phosphate content in enamel mineral during porcine amelogenesis. Shimoda, S., *et al.*, 1516

TEMPERING

Effect of thermal tempering on strength and crack propagation behavior of feldspathic porcelains. Anusavice, K.J. and Hojjatie, B., 1009

Influence of initial flaw size on crack growth in air-tempered porcelain. Anusavice, K.J., *et al.*, 131

TEMPOROMANDIBULAR JOINT

Elastic modulus of the temporomandibular joint disc from adult dogs, The. Tanne, K., *et al.*, 1545

TENASCIN

Immunohistochemical localization of the matrix glycoproteins—tenascin and the ED-sequence-containing form of cellular fibronectin—in human permanent teeth and periodontal ligament. Lukinmaa, P.-L., *et al.*, 19

TENSILE STRENGTH

Adhesion to dentin and physical properties of a light-cured glass-ionomer liner/base. Mitra, S.B., 72

Effect of local interfacial geometry on the measurement of the tensile bond strength to dentin, The. Van Noort, R., *et al.*, 889

Fatigue strength of a Au-Pd alloy/585 solder combination. Wiskott, H.W.A., *et al.*, 140

Tensile fatigue limits of prosthodontic adhesives. Aquilino, S.A., *et al.*, 208

TETRAHYDROZOLINE

Evaluation of new gingival retraction agents. Bowles, W.H., *et al.*, 1447

THROMBOXANE A2

Effect of thromboxane on contraction of canine mesenteric and lingual arteries, The. Greenberg, S.S., *et al.*, 1278

TINIDAZOLE

Single-dose concentrations of tinidazole in gingival crevicular fluid, serum, and gingival tissue in adults with periodontitis. Liew, V., *et al.*, 910

TITANIUM

Effect of partial coating with hydroxyapatite on bone remodeling in relation to porous-coated titanium-alloy dental implants in the dog, The. Pilliar, R.M., *et al.*, 1338

Induction of calcium phosphate precipitation by titanium dioxide. Damen, J.J.M., *et al.*, 1346

Refractive-index-adjustable fillers for visible-light-cured dental resin composites: preparation of TiO_2-SiO_2 glass powder by the sol-gel process. Suzuki, H., *et al.*, 883

TOBACCO

Effects of topical and systemic nicotine on gingival blood flow in dogs. Johnson, G.K., *et al.*, 906

TONGUE

Incidence and characterization of *Staphylococcus aureus* from the tongues of children. Miyake, Y., *et al.*, 1045

TOOTH

Immunohistochemical localization of the matrix glycoproteins—tenascin and the ED-sequence-containing form of cellular fibronectin—in human permanent teeth and periodontal ligament. Lukinmaa, P.-L., *et al.*, 19

TOOTH ABRASION

Abrasion of human enamel by different dental ceramics *in vitro*. Seghi, R.R., *et al.*, 221

TOOTH ABRASION *(Continued)*

New approach to the study of tooth wear, A. Teaford, M.F. and Tylenda, C.A., 204

TOOTH DEMINERALIZATION

Acid-susceptibility of lesions in bovine enamel after remineralization at different pH values and in the presence of different fluoride concentrations. Lammers, P.D., *et al.*, 1486

Effect of EHDP concentration on enamel demineralization *in vitro*. Christofferson, J., *et al.*, 123

In vitro demineralization of enamel by F-sensitive and F-resistant mutans streptococci in the presence of 0, 0.05, or 0.5 mmol/L NaF. Van Loveren, C., *et al.*, 1491

Quantitative analysis of mineral loss and shrinkage of *in vitro* demineralized human root surfaces, A. Ten Cate, J.M., *et al.*, 1371

Remineralization and demineralization *in situ* from a triclosan/co-polymer/fluoride dentifrice. Mellberg, J.F., *et al.*, 1441

Scanning and contact microradiography study of the effect of degree of saturation on the rate of enamel demineralization. Gao, X.J., *et al.*, 1332

Use of an intra-oral model to evaluate 0.05% sodium fluoride mouthrinse in radiation-induced hyposalivation. Meyerowitz, C., *et al.*, 894

TOOTH EROSION

Risk factors in dental erosion. Järvinen, V.K., *et al.*, 942

TOOTH ERUPTION

Video microscope observations of human premolar eruption. Proffit, W.R., *et al.*, 15

TOOTH GERM

Presence of vesicles containing lactate dehydrogenase in the dentin of bovine tooth germs. Kitamura, C., *et al.*, 1444

TOOTH MIGRATION

Experimental study in dogs of transseptal fiber arrangement between teeth which have emerged in rotated or non-rotated positions, An. Kusters, S.T., *et al.*, 192

TOOTH REMINERALIZATION

Acid-susceptibility of lesions in bovine enamel after remineralization at different pH values and in the presence of different fluoride concentrations. Lammers, P.D., *et al.*, 1486

Influence of fluoride and carbonate on *in vitro* remineralization of bovine enamel. Lammers, P.C., 970

Quantitative analysis of mineral loss and shrinkage of *in vitro* demineralized human root surfaces, A. Ten Cate, J.M., *et al.*, 1371

Remineralization and demineralization *in situ* from a triclosan/co-polymer/fluoride dentifrice. Mellberg, J.F., *et al.*, 1441

Use of an intra-oral model to evaluate 0.05% sodium fluoride mouthrinse in radiation-induced hyposalivation. Meyerowitz, C., *et al.*, 894

TOOTH ROOT

Effects of fluoride and chlorhexidine on the microflora of dental root surfaces and progression of root-surface caries. Schaeken, M.J.M., *et al.*, 150

Quantitative analysis of mineral loss and shrinkage of *in vitro* demineralized human root surfaces, A. Ten Cate, J.M., *et al.*, 1371

TOXICITY

Development of low- and high-serum culture conditions for use of human oral fibroblasts in toxicity testing of dental materials. Liu, Y., *et al.*, 1068

TRANSFERRIN

Effect of transferrin on the growth of *Porphyromonas gingivalis*. Inoshita, E., *et al.*, 1258

TRANSFORMING GROWTH FACTOR ALPHA

Cellular sources of transforming growth factor-alpha in human oral cancer. Todd, R., *et al.*, 917

TREPONEMA

Detection of two anaerobic periodontopathogens in children by means of the BANA and ELISA assays. Watson, M.-R., *et al.*, 1052

TREPONEMA DENTICOLA

Activation of complement by *Treponema denticola*. Schenkein, H.A. and Berry, C.R., 107

TRICLOSAN

Remineralization and demineralization *in situ* from a triclosan/co-polymer/fluoride dentifrice. Mellberg, J.F., *et al.*, 1441

TWINS

Twin study of genetic variation in proportional radiographic alveolar bone height, A. Michalowicz, B.S., *et al.*, 1431

ULTRASONOGRAPHY

Masseter muscle thickness measured by ultrasonography and its relation to facial morphology. Kiliaridis, S. and Kälebo, P., 1262

UREA

Multi-station dental plaque microcosm (artificial mouth) for the study of plaque growth, metabolism, pH, and mineralization. Sissons, C.H., *et al.*, 1409

Therapeutic mineral enrichment of dental plaque visualized by transmission electron microscopy. Pearce, E.I.F., *et al.*, 90

VARNISHES

Changes in strains of mutans streptococci induced by treatment with chlorhexidine varnish. Kozai, K., *et al.*, 1252

Clinical trial in adults of an antimicrobial varnish for reducing mutans streptococci. Sandham, H.J., 1401

WEAR RESISTANCE (*see* **Abrasion Resistance**)

WOLINELLA

Atypical structure of the 23S ribosomal RNA molecule in certain oral bacteria. Sunday, G.J., *et al.*, 961

WOUND HEALING

Effect of low-level laser treatment on maxillary arch dimensions after palatal surgery on beagle dogs, The. In De Braekt, M.M.H., *et al.*, 1467

X CHROMOSOME

Upper central incisor and canine tooth crown size in 47,XXY males. Alvesalo, L., *et al.*, 1057

XENOPUS LAEVIS

Biosynthesis and secretion of rat salivary proteins by *Xenopus laevis* oocytes. Apekin, V., *et al.*, 95

XEROSTOMIA

Use of an intra-oral model to evaluate 0.05% sodium fluoride mouthrinse in radiation-induced hyposalivation. Meyerowitz, C., *et al.*, 894

XXY MALES (*see* **Klinefelter's Syndrome**)

Y CHROMOSOME

Upper central incisor and canine tooth crown size in 47,XXY males. Alvesalo, L., *et al.*, 1057

ZINC

Release of elements of dental casting alloys into cell-culture medium, The. Wataha, J.C., *et al.*, 1014

POTASSIUM

Enumeration of oral streptococci on media containing different concentrations of sodium and potassium ions. Willcox, M.D.P., *et al.*, 1375

POTASSIUM CHLORIDE

Permselectivity of sound and carious human dental enamel as measured by membrane potential. Carey, C.M., *et al.*, 1479

PRESSURE

Involvement of PGE synthesis in the effect of intermittent pressure and interleukin-1ß on bone resorption. Saito, S., *et al.*, 27

PROPIONATES

Acid profile in carious dentin. Hojo, S., *et al.*, 182

PROPRANOLOL

Effect of a beta-adrenergic blocking agent on dental anxiety. Liu, H.H., *et al.*, 1306

Effects of autonomic drugs on the concentration of kallikrein-like proteases and cysteine-proteinase inhibitor (cystatin) in rat whole saliva, The. Bedi, G.S., 924

PROSTAGLANDINS E

Involvement of PGE synthesis in the effect of intermittent pressure and interleukin-1ß on bone resorption. Saito, S., *et al.*, 27

PROTEASES

Association of proteases of *Porphyromonas (Bacteroides) gingivalis* with its adhesion to *Actinomyces viscosus*. Li, J., *et al.*, 82

Effects of autonomic drugs on the concentration of kallikrein-like proteases and cysteine-proteinase inhibitor (cystatin) in rat whole saliva, The. Bedi, G.S., 924

Studies on the subcellular localization of protease and arylaminopeptidase activities in *Streptococcus sanguis* ATCC 10556. Cowman, R.A. and Baron, S.S., 1508

PROTEIN SYNTHESIS

Cytotoxic effects of resin components on cultured mammalian fibroblasts. Hanks, C.T., 1450

PROTEINS

Cell attachment activity of cementum proteins and mechanism of endotoxin inhibition. Olson, S., *et al.*, 1272

Human dentin-matrix-derived bone morphogenetic protein. Bessho, K., *et al.*, 171

PSEUDOCHOLINESTERASE

Effect of periodontal therapy on salivary pseudocholinesterase activity, The. Yamalik, N., *et al.*, 988

PYROMELLITIC DIANHYDRIDE

Effect of catalyst structure on the synthesis of a dental restorative monomer. Farahani, M., *et al.*, 67

RABBITS

Comparative study of fluoride pharmacokinetics in five species, A. Whitford, G.M., *et al.*, 948

RADIOGRAPHY, DENTAL

Detection of periodontal disease activity with a scintillation camera. Reddy, M.S., *et al.*, 50

Review of quantitative methods for studies of mineral content of intra-oral incipient caries lesions, A. Ten Bosch, J.J. and Angmar-Månsson, B., 2

RADIOGRAPHY, PANORAMIC

Twin study of genetic variation in proportional radiographic alveolar bone height, A. Michalowicz, B.S., *et al.*, 1431

RADIOISOTOPES

Detection of periodontal disease activity with a scintillation camera. Reddy, M.S., *et al.*, 50

RATS

Application of the MTT colorimetric assay to measure cytotoxic effects of phenolic compounds on established rat dental pulp cells. Kasugai, S., *et al.*, 127

Biosynthesis and secretion of rat salivary proteins by *Xenopus laevis* oocytes. Apekin, V., *et al.*, 95

Calcium uptake in rat parotid gland secretory granules. Porter, J.E., *et al.*, 1524

Comparative study of fluoride pharmacokinetics in five species, A. Whitford, G.M., *et al.*, 948

Compensatory hyperplasia of the rat submandibular gland following unilateral extirpation. Schwartz-Arad, D., *et al.*, 1328

Distribution of magnesium in developing rat incisor dentin, The. Steinfort, J., *et al.*, 187

Effects of autonomic drugs on the concentration of kallikrein-like proteases and cysteine-proteinase inhibitor (cystatin) in rat whole saliva, The. Bedi, G.S., 924

Effects of calcium-phosphate-based materials on proliferation and alkaline phosphatase activity of newborn rat periosteal cells *in vitro*. Teti, A., *et al.*, 997

Enhancing the virulence of *Streptococcus sobrinus* in rats. Madison, K.M., *et al.*, 38

Histomorphometric analysis of the effects of fluoride on experimental ectopic bone formation in the rat, A. Mohr, H. and Kragstrup, J., 957

Human dentin-matrix-derived bone morphogenetic protein. Bessho, K., *et al.*, 171

Immunocytochemical evidence for the site of O-methylation in rat dental pulp. Inoue, K., *et al.*, 966

Kinetics of bone-resorbing activity in developing periapical lesions. Wang, C.-Y. and Stashenko, P., 1362

Protection of rats against dental caries by passive immunization with hen-egg-yolk antibody (IgY). Otake, S., *et al.*, 162

Role of leukotriene B_4 in neutrophil infiltration in experimentally-induced inflammation of rat tooth pulp. Okiji, T., *et al.*, 34

REFERENCE STANDARDS

Draft results of a workshop to develop guidelines for studies involving microbial incidence or populations in the oral cavity. Krichevsky, M.I., *et al.*, 226

REMINERALIZATION (*see* Tooth Remineralization)

RESEARCH

Guest editorial: the dental diagnostic sciences and the future of dental practice. Razmus, T.F., 1309

Guest editorial: dental faculties: dilemmas and challenges. Gilboe, D.B., 79

Guest editorial: the need for more tools. Chambers, D.W., 1098

should dentists be doing what they do? (Editorial). Dawes, C., 1221

Guest editorial: taking mentoring seriously. Lopatin, D.E., 239

RESEARCH DESIGN

Power and sample size calculations for clinical trials of myofascial pain of jaw muscles. Dao, T.T.T., *et al.*, 118

RESERPINE

Effects of autonomic drugs on the concentration of kallikrein-like proteases and cysteine-proteinase inhibitor (cystatin) in rat whole saliva, The. Bedi, G.S., 924

RESIN COMPOSITES (*see* Composites)

RESINS

Analysis of clinical studies on resin-bonded bridges, An. Creugers, N.H.J. and Van 'T Hof, M.A., 146

Cytotoxic effects of resin components on cultured mammalian fibroblasts. Hanks, C.T., 1450

Importance of polymerization initiator systems and interfacial initiation of polymerization in adhesive bonding of resin to dentin. Imai, Y., *et al.*, 1088

Influence of the solubility parameter of intermediary resin on the effectiveness of the Gluma bonding system. Asmussen, E., *et al.*, 1290

Photo-activation of resin cements through porcelain veneers. Linden, J.J., *et al.*, 154

Vibrational analysis by Raman spectroscopy of the interface between dental adhesive resin and dentin. Suzuki, M., *et al.*, 1092

RESTRICTION ENDONUCLEASES (*see* DNA Restriction Enzymes)

RNA, MESSENGER

Biosynthesis and secretion of rat salivary proteins by *Xenopus laevis* oocytes. Apekin, V., *et al.*, 95

RNA, RIBOSOMAL

Atypical structure of the 23S ribosomal RNA molecule in certain oral bacteria. Sunday, G.J., *et al.*, 961

RNA PROBES

Draft results of a workshop to develop guidelines for studies involving microbial incidence or populations in the oral cavity. Krichevsky, M.I., *et al.*, 226

SALIVA

Age-related changes in mucins from human whole saliva. Denny, P.C., *et al.*, 1320

Effect of increased mastication by daily gum-chewing on salivary gland output and dental plaque acidogenicity, The. Dodds, M.W.J., *et al.*, 1474

Effect of periodontal therapy on salivary pseudocholinesterase activity, The. Yamalik, N., *et al.*, 988

Effects of autonomic drugs on the concentration of kallikrein-like proteases and cysteine-proteinase inhibitor (cystatin) in rat whole saliva, The. Bedi, G.S., 924

Effects of salivary bicarbonate content and film velocity on pH changes in an artificial plaque containing *Streptococcus oralis*, after exposure to sucrose. MacPherson, L.M.D., *et al.*, 1235

Effects of salivary film velocity on pH changes in an artificial plaque containing *Streptococcus oralis*, after exposure to sucrose. MacPherson, L.M.D. and Dawes, C., 1230

Enhancing the virulence of *Streptococcus sobrinus* in rats. Madison, K.M., *et al.*, 38

Enumeration of oral streptococci on media containing different concentrations of sodium and potassium ions. Willcox, M.D.P., *et al.*, 1375

Lack of correlation between food retention on the human dentition and consumer perception of food stickiness. Kashket, S., *et al.*, 1314

Risk factors in dental erosion. Järvinen, V.K., *et al.*, 942

SALIVARY GLANDS

Biosynthesis and secretion of rat salivary proteins by *Xenopus laevis* oocytes. Apekin, V., *et al.*, 95

Effect of increased mastication by daily gum-chewing on salivary gland output and dental plaque acidogenicity, The. Dodds, M.W.J., *et al.*, 1474

Immunoglobulin isotypes in human minor gland saliva. Smith, D.J., *et al.*, 167

PAROTID

Calcium uptake in rat parotid gland secretory granules. Porter, J.E., *et al.*, 1524

Relationship between the parotid gland and the facial nerve during human development. Espin-Ferra, J., *et al.*, 1035

SUBMANDIBULAR

Compensatory hyperplasia of the rat submandibular gland following unilateral extirpation. Schwartz-Arad, D., *et al.*, 1328

SALIVARY PROTEINS

Biosynthesis and secretion of rat salivary proteins by *Xenopus laevis* oocytes. Apekin, V., *et al.*, 95

SCINTILLATION CAMERA

Detection of periodontal disease activity with a scintillation camera. Reddy, M.S., *et al.*, 50

SEALANTS (*see* Pit and Fissure Sealants)

SEX CHROMOSOMES

Upper central incisor and canine tooth crown size in 47,XXY males. Alvesalo, L., *et al.*, 1057

SHEAR BOND STRENGTH

Adhesion to dentin and physical properties of a light-cured glass-ionomer liner/base. Mitra, S.B., 72

Dentin bond strength of light-cured glass-ionomer cements. Hinoura, K., *et al.*, 1542

SHRINKAGE (*see* Contraction)

SILICA

Refractive-index-adjustable fillers for visible-light-cured dental resin composites: preparation of TiO_2-SiO_2 glass powder by the sol-gel process. Suzuki, H., *et al.*, 883

SILICONE ELASTOMERS

Effect of particle size reduction on the jaw gape in human mastication, The. Van Der Bilt, A., *et al.*, 931

SILVER

Physical properties of stainless-steel and silver-reinforced glass-ionomer cements. Kerby, R.E. and Bleiholder, R.F., 1358

Release of elements of dental casting alloys into cell-culture medium, The. Wataha, J.C., *et al.*, 1014

SILVER NITRATE

Staining of *in vivo* subsurface degradation in dental composites with silver nitrate. Mair, L.H., 215

SODIUM

Enumeration of oral streptococci on media containing different concentrations of sodium and potassium ions. Willcox, M.D.P., *et al.*, 1375

SODIUM FLUORIDE

In vitro demineralization of enamel by F-sensitive and F-resistant mutans streptococci in the presence of 0, 0.05, or 0.5 mmol/L NaF. Van Loveren, C., *et al.*, 1491

Use of an intra-oral model to evaluate 0.05% sodium fluoride mouthrinse in radiation-induced hyposalivation. Meyerowitz, C., *et al.*, 894

SOLDERING, DENTAL

Fatigue strength of a Au-Pd alloy/585 solder combination. Wiskott, H.W.A., *et al.*, 140

SOLUBILITY

Influence of the solubility parameter of intermediary resin on the effectiveness of the Gluma bonding system. Asmussen, E., *et al.*, 1290

SOMATOSTATIN

Immunocytochemical evidence for the presence of somatostatin-like immunoreactive nerves in human dental pulp. Casasco, A., *et al.*, 87

SPECTRUM ANALYSIS

Adhesion to bovine dentin—surface characterization. Ruse, N.D. and Smith, D.C., 1002

SPECTRUM ANALYSIS, RAMAN

Vibrational analysis by Raman spectroscopy of the interface between dental adhesive resin and dentin. Suzuki, M., *et al.*, 1092

SPIROCHAETALES

Activation of complement by *Treponema denticola*. Schenkein, H.A. and Berry, C.R., 107

STAINLESS STEEL

Physical properties of stainless-steel and silver-reinforced glass-ionomer cements. Kerby, R.E. and Bleiholder, R.F., 1358

STAINS AND STAINING

Staining of *in vivo* subsurface degradation in dental composites with silver nitrate. Mair, L.H., 215

STAPHYLOCOCCUS AUREUS

Incidence and characterization of *Staphylococcus aureus* from the tongues of children. Miyake, Y., *et al.*, 1045

STREPTOCOCCUS

Enumeration of oral streptococci on media containing different concentrations of sodium and potassium ions. Willcox, M.D.P., *et al.*, 1375

MUTANS

Changes in strains of mutans streptococci induced by treatment with chlorhexidine varnish. Kozai, K., *et al.*, 1252

Chromosomal deletions in melibiose-negative isolates of *Streptococcus mutans*. Ushiro, I., *et al.*, 1422

Clinical trial in adults of an antimicrobial varnish for reducing mutans streptococci. Sandham, H.J., 1401

Effects of fluoride and chlorhexidine on the microflora of dental root surfaces and progression of root-surface caries. Schaeken, M.J.M., *et al.*, 150

AUTHOR INDEX TO VOLUME 70, 1991

A

ADEY, J.D., 1394
ADUSE-OPOKU, J., 1422
AEPPLI, D.P., 1431
AKDOGANLI, T., 988
AKIMOTO, T., 1088
ALI-SALAAM, P., 167
ALVES, M.E.A.F., 984
ALVESALO, L., 1057
AMANO, A., 1258
ANDERSEN, B.R., 102
ANDERSON, P., 1332
ANGMAR-MÄNSSON, B., 2
ANUSAVICE, K.J., 131, 1009
AOBA, T., 1516
APEKIN, V., 95
AQUILINO, S.A., 208
ARENDS, J., 123
ARMITAGE, G.C., 1531
ÅRTUN, J., 1427
ARVIDSON, K., 1068
ARZATE, H., 1272
ASMUSSEN, E., 1290, 1537
ATZORI, L., 1068

B

BADER, J., 1386
BAIK, H.S., 15
BANKS, J.A., 1022
BARON, S.S., 1508
BARRANCO-ZAFRA, R.J., 1035
BATICH, C.D., 1074
BAUER, P., 221
BEDI, G.S., 924
BEERTSEN, W., 176, 187
BEREUTER, J.E., 1431
BERRY, C.R., 107
BESSHO, K., 171
BILES, E.D., 948
BILLINGS, R.J., 894
BIRDSONG-WHITFORD, N.L., 948
BLAKE-HASKINS, J., 1441
BLEIHOLDER, R.F., 1358
BORGGREVEN, J.M.P.M., 970, 1486
BOSMAN, F., 931
BOSY, A., 1436
BOUCHARD, T.J., Jr., 1431
BOWEN, R.L., 67
BOWEN, W.H., 38
BOWLES, W.H., 1447
BOYER, D.B., 154
BRAEM, M., 1299
BRETZ, W.A., 1052
BRONNER, F., 99
BROWN, J., 1401
BUCHANAN, N., 910
BUIJS, J.F., 1491
BURGESS, R.C., 1401

C

ÇAGLAYAN, F., 988
ÇAGLAYAN, G., 988
CALLIGARO, A., 87
CAMP, P.J.M., 1041
CARDEW, G.E., 889
CAREY, C.M., 1479
CARMICHAEL, R.P., 899
CARTER, S., 1338
CASASCO, A., 87
CASASCO, M., 87
CHAMBERS, D.A., 984
CHAMBERS, D.W., 1099
CHAN, K.H., 1401
CHAUNCEY, H.H., 866
CHEN, W.-Y, 1235
CHEUNG, P., 1524
CHIPMAN, M., 1338
CHOU, M.Y., 917
CHOW, L.C., 1479
CHRISTOFFERSEN, J., 123
CHRISTOFFERSEN, M.R., 123
COHEN, R.L., 984
COLUCCI, S., 997
CONRY, J.P., 1431
COTGREAVE, I., 1068
COWMAN, R.A., 1508
CRAIG, R.G., 1014, 1450
CRAWFORD, J.M., 984
CREUGERS, N.H.J., 146
CREVELING, C.R., 966
CURRO, F.A., 1278
CUTRESS, T.W., 1409
CVEJIC, M., 910

D

DAMEN, J.J.M., 1346
DAO, T.T.T., 118
DAVIDOVITCH, Z., 27
DAVIDSON, C.L., 880
DAVIS, B.K., 154
DAWES, C., 1221, 1230, 1235
DE GROOT, K., 1338
DENNY, P.A., 1320
DENNY, P.C., 1320
DEPAOLA, P., 979
DEPORTER, D.A., 1338
DEUTSCH, D., 913
DIAZ-ARNOLD, A.M., 208
DODDS, M.W.J., 1474
DONOFF, R.B., 917
DOWD, F.J., 1524
DRIESSENS, F.C.M., 187, 970, 1486
DUBOIS, L.M., 906

E

EISENBERG, A.D., 894, 1491
ELLEN, R.P., 82
ELLINGSEN, J.E., 1346
ELLIOTT, J.C., 1332
ENGLISH, R., 50
ERTEL, I.J., 1052
ESPIN-FERRA, J., 1035
EVANS, A.L., 137

F

FALANY, J.L., 38
FANN, S.J., 1380
FARAHANI, M., 67
FEATHERSTONE, J.D.B., 894
FEILZER, A.J., 880
FEINE, J.S., 118
FEJERSKOV, O., 1371
FELTON, J.R., 82
FERRETTI, J.J., 1422
FISET, L., 1306
FITZGERALD, M., 55
FOONG, W.C., 991
FU, J., 894
FUNG, Y.K., 906

G

GALLAGHER, G.T., 917
GAO, X.J., 1332
GARCIA, R.I., 866
GARCIA-GARCIA, J.D., 1035
GAY, T., 1417
GEDDES, D.A.M., 1528
GENCO, R.J., 1102
GILBOE, D.B., 80
GILLESPIE, M.J., 961
GINIGER, M.S., 99
GOLDBERGER, G., 95
GOTO, T., 1456
GRAFSTRÖM, R.C., 1068
GRAHAM, B.S., 870
GRANO, M., 997
GRAY, A., 131
GREENBERG, S.S., 1278
GROTE, N.E., 1441

H

HALL, G.C., 874, 1082
HANKS, C.T., 1014, 1450
HANSEN, E.K., 1290
HARSANYI, B.B., 991
HASEGAWA, N., 127
HATTA, H., 162
HAYDEN, M., 910
HEIJLIGERS, H.J.M., 187
HEINONEN, O.P., 942
HENRY, R.J., 1286
HEYS, R.J., 55
HIDI, P., 991
HINOURA, K., 1542
HIRASAWA, M., 162
HIRATA, K., 975
HOFFMAN, M.P., 1409
HOJJATIE, B., 1009
HOJO, S., 182
HONG, S.H., 1320
HOOVER, C.I., 82
HOWARD, I.C., 889
HOWELL, R.E., 991
HSIEH, S.C., 1474
HUNT, R.J., 1380

I

IIJIMA, T., 1456
IKAKURA, K., 1088
IMAI, Y., 1088
IN DE BRAEKT, M.M.H., 1467
INOSHITA, E., 1258
INOUE, K., 966
IRWIN, A.M., 1375
ISHII, T., 952
ITOH, K., 1294
IWAI, T., 1045
IWAKURA, K., 1258

J

JACOB, R.A., 1531
JACQUES, N.A., 1375
JÄRVINEN, V.K., 942
JEFFCOAT, M.K., 50
JOHNSON, D.A., 1474
JOHNSON, G.K., 906
JOHNSON, W.T., 906
JOHNSTON, A.D., 67, 211
JONES, D.W., 870, 874, 991, 1082
JOSHIPURA, K., 979, 1497, 1503

K

KADOMA, Y., 1088
KÄLEBO, P., 1262
KARLSSON, S., 1367
KASHKET, S., 1314
KASUGAI, S., 127
KATO, H., 1092
KATSUNO, K., 1294
KELLY, J., 1528
KELTJENS, H.M.A.M., 150
KENT, R., 1497, 1503
KERBY, R.E., 1358
KERR, W.J.S., 1528
KILIARIDIS, S., 1262, 1367
KIM, M., 162
KIMURA, K., 975
KITAMURA, C., 1444
KJELLBERG, H., 1367
KLAUSER, D.K., 1320
KNOX, K.W., 1375
KOJIMA, K., 1088
KONDO, T., 1456
KOZAI, K., 1252
KRAGSTRUP, J., 957
KRICHEVSKY, M.I., 226

KUBA, R.K., 1431
KUIJPERS-JAGTMAN, A.M., 192, 1467
KULKARNI, G.V., 1436
KUSTERS, S.T., 192

L

LAFORGIA, A., 997
LAMBERT, L.A., 102
LAMBRECHTS, P., 1299
LAMMERS, P.C., 970, 1486
LANGMAN, M.F., 874
LAVIGNE, G.J., 118
LEE, C.F., 15
LEGGOTT, P.J., 1531
LI, J., 82
LIDDELL, A.M., 198
LIEW, V., 910
LINDAUER, S.J., 1417
LINDEN, J.J., 154
LISTGARTEN, M.A., 1105
LIU, H.H., 1306
LIU, Y., 1068
LOCKER, D., 198
LOESCHE, W.J., 1052
LOPATIN, D.E., 239, 1052
LOPEZ, L.R., 1314
LORENZO, J.A., 99
LUKINMAA, P.-L., 19
LUMB, S.M., 1422
LUND, J.P., 118

M

MACK, G., 910
MACKERT, J.R., Jr., 137
MACKIE, E.J., 19
MACPHERSON, L.M.D., 1230, 1235
MADISON, K.M., 38
MAHLER, D.B., 1394
MAIR, L.H., 215
MAKIMURA, M., 162
MALTHA, J.C., 192, 1467
MANABE, A., 1294
MANGINI, F., 997
MARCHETTI, C., 87
MARTINEN, S.S., 1427
MATOSSIAN, K., 917
MATSUMOTO, J., 171
MAYER, I., 913
McCULLOCH, C.A.G., 899, 1436
McFALL, W.T., Jr., 1386
McSWIGGIN, T., 984
MELLBERG, J.R., 1441
MERIDA-VELASCO, J.A., 1035
MEYEROWITZ, C., 894
MICHAELI, Y., 1328
MICHALOWICZ, B.S., 1431
MILGROM, P., 1306
MILLER, C.S., 111
MITRA, S.B., 72, 75
MIURA, K., 1045
MIYAKE, Y., 1045
MIYASAKA, T., 1294
MIYAZAKI, M., 1542
MOCK, D., 1061
MOHR, H., 957
MORENO, E.C., 1516
MORITA, I., 34
MORITA, M., 1048
MOSS, S.J., 158
MOTLEY, S.T., 961
MUKOUYAMA, Y., 975
MURATA, M., 171
MUROTA, S., 34

N

NAGASAKA, N., 1045
NAKABAYASHI, N., 59
NAKASHIMA, M., 975
NARAYANAN, A.S., 1272
NAVAZESH, M., 1320
NGAN, P., 27
NICHOLLS, J.I., 140
NIEDERMAN, L.G., 102
NISHIHARA, Y., 162
NISHINO, T., 966
NOGUCHI, T., 1444
NOROOZI, S., 889
NORTON, L., 99
NOWAK, A.J., 160
NYVAD, B., 1371

O

OGURA, H., 127
OHTA, T., 1088
OKIJI, T., 34
OLSON, S., 1272
OLTHOFF, L.W., 931
ONOSE, H., 1542
OPPENHEIM, F.G., 95
OTAKE, S., 162
OWEN, C.G., 1082
ÖZER, N., 988

P

PAGE, R.C., 1272
PAZ, M.A., 95
PEARCE, E.I.F., 90
PEARSON, S.K., 38
PETROU, I.D., 1441
PEUTZFELDT, A., 1290, 1537
PHAROAH, M., 1338
PHILLIPS, H.I., 1252, 1401
PIHLSTROM, B.L., 1431
PILLIAR, R.M., 1338
PIOTROWSKI, T.J., 208
POLAK, J.M., 87
PORTER, J.E., 1524
PREWITT, J.R., 15
PRIMOSCH, R.E., 1286
PROFFIT, W.R., 15
PROSTAK, K.S., 1266
PUNWANI, I., 102

R

RAMMAZATTO, L., 1278
RAMSAY, D.S., 1427
RAZMUS, T.F., 1310
REDDY, M.S., 50
RENDELL, J., 1417
RIORDAN, P.J., 1022, 1029
ROBERTSON, K.N., 874
ROBERTSON, P.B., 1531
ROSENBERG, M., 1436
ROSENSTIEL, S.F., 221
ROSOL, T., 27
ROZIER, R.G., 1386
RUBEN, J., 123
RUSE, N.D., 1002
RUSSELL, R.R.B., 1422
RYTÖMAA, I., 942, 1064

S

SAITO, M., 27
SAITO, S., 27
SAKUDA, M., 1545
SANCHEZ-MONTESINOS, I., 1035
SANDHAM, H.J., 1252, 1401
SANSONE, C., 1497, 1503
SARRETT, D.C., 1074
SASHIMA, M., 1462
SATOH, M., 1462
SCHAEKEN, M.J.M., 150
SCHENKEIN, H.A., 107
SCHWARTZ-ARAD, D., 1328
SEGAL, N.L., 1431
SEGHI, R.R., 221
SEIFERT, P., 1266
SEKINE, I., 975
SHANFELD, J., 27
SHARIATI, M., 894
SHEN, C., 131
SHIMIZU, H., 27
SHIMODA, S., 1516
SHINJO, N., 27
SHIZUKUISHI, S., 1258
SILVA, B., 1068
SISSONS, C.H., 90, 1409
SKOBE, Z., 1266
SMARTZ, L., 1278
SMITH, D.C., 1002
SMITH, D.J., 167
SMITH, K.O., 111
SMITH, T.A., 938
SÖDERHOLM, K.-J.M., 1074
SOLAVAARA, L., 1064
SOPARKAR, P., 979
SOUSA, S., 99
SPITZ, L.M., 1491
SPRINGALL, D.R., 87
SQUIER, C.A., 1019
STAMM, J.W., 1239
STASHENKO, P., 1362
STEINFORT, J., 187
STEWART, P.W., 1239
STOCKS, S., 1314
STOKL, A.J., 1401
STRAWN, S.E., 1450
SUCKLING, G., 952
SUGAI, M., 1045
SUGINAKA, H., 1045
SUNADA, I., 34
SUNDAY, G.J., 961
SUNDQVIST, K., 1068
SUTOW, E.J., 870, 874, 1082
SUZUKI, A., 1462
SUZUKI, H., 883
SUZUKI, M., 1092
SWIFT, E.J., Jr., 154
SYDNEY-ZAX, M., 913

T

TABAK, L.A., 1320
TAGAWA, T., 171
TAGGART, R., 140
TAIRA, M., 883
TAKAHASHI, N., 182
TAMAGAWA, H., 1258
TAMMISALO, E., 1057
TANAKA, E., 1545
TANAKA, N., 171
TANAKA, T., 1456
TANGUAY, R., 118
TANI, T., 1350
TANNE, K., 1545
TARDY, S.J., 1447
TARQUILIO, A., 997
TAUBMAN, M.A., 167
TAVARES, M., 979
TEAFORD, M.F., 204
TEN BOSCH, J.J., 2
TEN CATE, J.M., 1346, 1371, 1491
TERASHITA, M., 1444
TETI, A., 997
THESLEFF, I., 19
TODD, G.L., 906
TODD, R., 917
TOWNSEND, G., 1057
TSENG, P., 910
TUMEH, S.S., 50
TYLENDA, C.A., 204

U

UDOH, K., 1350
USHIRO, I., 1422

V

VAHADI, A., 1447
VALIQUETTE, N., 1338
VAN ALPHEN, F.A.M., 1467
VAN DE PLASSCHE-SIMONS, Y.M., 1371
VAN DEN BOS, T., 176
VAN DER BILT, A., 931
VAN DER GLAS, H.W., 931
VAN DER HOEVEN, J.S., 150, 1041
VAN DIJK, J.W.E., 970

VAN HOUTE, J., 1314, 1497, 1503
VAN LANDUYT, J., 1350
VAN LOVEREN, C., 1491
VAN NOORT, R., 889
VAN 'T HOF, M.A., 146
VAN TENDELOO, G., 1350
VAN ZEGHBROECK, L., 880
VANHERLE, G., 1299
VEHKALAHTI, M.M., 1064
VOGEL, G.L., 1479
VUYLSTEKE-WAUTERS, M., 1299

W

WAKASA, K., 883
WAKEFIELD, J.St.J., 90, 1409
WAKUMOTO, S., 1092, 1294
WALDMAN, H.B., 1391
WALSH, M., 1531
WANG, C.-Y., 1362
WANG, D.S., 1252
WANG, T., 59
WANG, Y., 1278
WATAHA, J.C., 1014, 1450
WATANABE, K., 102
WATANABE, T., 1048
WATSON, M.R., 1052
WATSON, P.A., 1338
WATSON, T.F., 44
WEBB, R.E., 211
WHITFORD, G.M., 948
WILLCOX, M.D.P., 1375
WILLEMS, G., 1299
WILLIAMS, R.C., 50
WISKOTT, H.W.A., 140
WONG, D.T.W., 917

X

XIE, J., 1278

Y

YAMADA, T., 182
YAMAKI, M., 883
YAMALIK, N., 988
YAMAMOTO, T., 162, 1048
YASUDA, K., 1350

Z

ZAJICEK, G., 1328
ZAMBON, J.J., 961, 1531
ZAMBONIN ZALLONE, A., 997
ZARB, G.A., 899
ZERO, D.T., 894
ZHANG, J.Q., 1456
ZHANG, L., 1061

The index was prepared by Fetters InfoManagement Co., Port Aransas, Texas.